

VENDOR LIST

ALTERNATIVES FOR CFC-113
AND METHYL CHLOROFORM IN
PRECISION CLEANING



November 1998

SIGNIFICANT NEW ALTERNATIVES POLICY PROGRAM
STRATOSPHERIC PROTECTION DIVISION
U.S. EPA

This document is not an exhaustive list of vendors and is intended for informational purposes only. Product offerings and descriptions have been supplied by the vendors included on the list and have not been evaluated by EPA. EPA does not endorse these products, certify their cleaning performance, or certify the accuracy of health and safety data provided by these companies for any of the alternatives to CFC-113 and methyl chloroform (MCF) presented in this document.

Section 612 of the Clean Air Act Amendments of 1990 requires EPA to publish lists of acceptable and unacceptable alternatives for ozone depleting substances (ODSs). To complete these lists, the Significant New Alternatives Policy (SNAP) program is evaluating both new and existing alternatives to ODSs within a comparative risk framework. To obtain a copy of the SNAP acceptability determinations, please contact:

SNAP Coordinator
U.S. EPA 6205J
401 M St. SW
Washington, DC 20460
(202) 564-9870

The majority of cleaning products sold by companies listed in this document are acceptable under the SNAP program for use as CFC-113 or MCF replacements. However, it is the user's responsibility to ensure that products selected to replace CFCs and methyl chloroform are acceptable substitutes under the SNAP Program.

If you would like to add a company name to the vendor list, please fill out the form at the end of this document and send it along with product literature to the SNAP coordinator. If you have a new substitute and would like to make a formal submission to the SNAP program prior to having your company added to our lists, please also contact the SNAP Coordinator. Product formulations describing specific ingredients and composition must be included in order to have a product evaluated.

AQUEOUS CLEANERS

ADF Systems, Ltd.
1302 19th Street. N.
Humboldt, IA 50548
Tel: (515) 332-5400
Fax: (515) 332-4495

Offers detergents both liquid and powder designed for use in all type of aqueous washing equipment. Offers non-foaming formulations with and without glycol ethers and with and without rust inhibitors for all applications. Has parts washing equipment designed for the type of uses experienced in maintenance operations.

Aerocote Corporation
P.O. Box 15849
Houston, TX 77220
Tel: (713) 224-6185
Fax: (713) 223-5229

Aqueous, semi-aqueous cleaners and hydrocarbon solvents. Applications using agitation including spray wash cabinets. Also, spray in steam cleaning, pressure washing, soak immersion, ultrasonic, and hand wiping applications.

Altos Engineering, Inc.
6009 N. 61 Ave
Glendale, AZ 85301
Tel: (602) 931-8434
Fax: (602) 937-6396

Batch and inline cleaning equipment with non-chemical, thermal vacuum drying of rinse waters. Detergent formulations available with and without glycol ethers.

Ambassador Marketing
Route 1-Box 207
St. David, AZ 85630
Tel: (602) 720-4310
Fax: (602) 720-4068

Aqueous and alcohol based cleaners for low residue degreasing and dewaxing applications. Formulations are nonflammable and nonfuming.

Amtrex Technologies Inc.
3361 boulevard Griffith
Saint-Laurent QC
Canada H4T 1W5
Tel: (514) 739-0233
Fax: (514) 739-1581

Aqueous ultrasonic cleaning/degreasing systems for the metalworking, aerospace, automotive, military, and plating industries.

Ardrox
16961 Knott Avenue
La Mirada, CA 90638
Tel: (714) 739-2821
Fax: (714) 670-6480

Full range of aqueous-based formulations as well as aliphatic hydrocarbon-based blends, terpene-based formulations, hydrocarbon-based solvent blends and other cleaning alternatives and equipment.

AT-CHEM
1225 W. Main St.
Wilmington, OH 45177
Tel: (513) 362-7511
(800) 443-2436
Fax: (513) 362-8038

AtoChem North America
3 Parkway
Philadelphia, PA 19102
Tel: (215)419-7000

A.W. Chesterton
225 Fallon Road
Middlesex Industrial Park
Stoneham, MA 02180-2999
Tel: (617) 438-7000
Fax: (617) 438-8971

Better Engineering Mfg., Inc.
8361 Town Center Court
Baltimore, MD 21236-4964
Tel: (410) 931-0000
(800) 229-3380
Fax: (410) 931-0053

Betz Metchem
508 Prudential Rd.
Horsham, PA 19044
Tel: (800) 775-7175

Bio-Chem of Illinois, Inc.
3335 No. Lewis Avenue
Waukegan, IL 60087
Tel: (708) 249-5770
Fax: (708) 623-6919

CAE Blackstone Ultrasonics, Inc.
9 North Main St.
Jamestown, NY 14701
Tel: (716) 665-2340
(800) 766-6606
Fax: (716) 665-2480

Blue Wave Ultrasonics
Div. of Alpheus Cleaning Technologies Corp.
960 S. Rolff St.
Davenport, IA 52802
Tel: (319) 322-0144
(800) 373-0144
Fax: (319) 322-7180

A complete line of aqueous cleaners containing detergents, with and without glycol ethers. Hydrocarbon solvents and solvent blends. Non-ozone depleting chlorinated solvents. Provide free assistance to customers wishing to replace ozone-depleting chemicals. Synthetic machining fluids, lubricants and maintenance specialties.

Manufacturers of industrial cleaning equipment, including automatic jet washers compatible with biodegradable detergents and water solutions. Also cleaning systems with wash, rinse, and dry cycles, custom systems, extended wash cabinets, large capacity systems, and tumbling systems.

Complete range of ultrasonic cleaning products from stand-alone and bench-top heated tanks to wash/multiple rinse/dry console systems with optional material handling and automation. Also, fluxless ultrasonic solder pots for tinning leads and electronics.

Ultrasonic cleaning equipment built for various applications specific to the customer's needs. Effective in cleaning different products and materials throughout the scope of fabricated metals, plastics, and ceramics. Also offer aqueous-based detergents that are environmentally safe.

Branson Ultrasonics Corp.
P.O. Box 1961
41 Eagle Rd.
Danbury, CT 06813-1961
Tel: (203) 796-0392
Fax: (203) 796-0320

Break-Free, Inc.
1035 S. Linwood Avenue
Santa Ana, CA 92705-4396
Tel: (714) 953-1900
Fax: (714) 953-0402

The Brulin Corporation
PO Box 270
2920 Dr. Andrew J. Brown Ave.
Indianapolis, IN 46206
Tel: (317) 923-3211
Fax: (317) 925-4596

Buckeye International, Inc.
2700 Wagner Place
Maryland Heights, MO 63043
Tel: (800) 321-2583
Fax: (314) 298-2850

BY*PAS International Corporation
P.O. Box 14
Hudsonville, MI 49426
Tel: (616) 875-7234
Fax: (616) 875-7743

Chemical Solvents, Inc.
3751 Jennings Road
Cleveland, OH 44109
Tel: (216) 741-9310
Fax: (216) 741-4080

Ultrasonic cleaning equipment and integrated cleaning systems for metal, electronic, and precision cleaning requirements. Manual and fully automated material handling/transport systems. Equipment for aqueous, semi-aqueous and solvent chemistry.

Unique blend of orange oils and highly refined synthetic hydrocarbons formulated as a safe replacement for most chlorinated or halogenated, ozone-depleting solvents. Applications include degreasing, removal of oils, wax, tar, adhesives, fresh paint and oil-based inks. Also water-based, alkaline cleaners for the removal of heavy soil contaminants.

Advanced technology aqueous detergent systems for spray, immersion, ultrasonic, and passive process cleaning of fabricated metal or plastic parts.

Aqueous cleaners made with new patented chemistry have successfully replaced MEK, 1,1,1-trichloroethane, acetone, and other hydrocarbon solvents in many different applications.

Aliphatic hydrocarbon blends, terpenes, surfactants, biodegradable emulsifiers, non-ozone depleting halogenated solvents, HCFCs. Specialty formulations for metal, urethane fiberglass (resin) clean-up processes via spray, wipe and immersion systems. Turn-key parts cleaning services. Recycling, disposal of generated waste solvents and waters.

Chem-Tech International
1800 Diagonal Rd., Suite 600
Alexandria, VA 22314
Tel: (703) 549-1001
Fax: (703) 549-1003

Chemtronics, Inc.
8125 Cobb Center Dr.
Kennesaw, GA 30144
Tel: (404) 424-4888
Fax: (404) 424-4267

Church & Dwight Co, Inc.
469 N. Harrison Street
Princeton, NJ 08543-5297
Tel: (609) 683-5900
Fax: (609) 497-7176

Circle-Prosc0, Inc.
2017 Yost Ave.
Bloomington, IN 47403
Tel: (812) 339-3653
Fax: (812) 331-2566

Container Products Corp.
PO Box 3767
Wilmington, NC 28406
Tel: (919) 392-6100
Fax: (919) 392-6778

Crest Ultrasonics
Scotch Rd.- Mercer County Airport
PO Box 7266
Trenton, NJ 08628
Tel: (609) 883-4000
(800) 441-9675
Fax: (609) 883-6452

Aqueous-based formulations containing detergents with and without glycol ethers as well as blends of hydrocarbons and emulsifiers which, when used in combination, provide residue-free cleaning. Can be used on all metals, teflon, plastic, and painted coatings. Also specially designed cleaning equipment.

Ultra-pure cleaners for electronics and metals.

Aqueous-based alkaline cleaner for removing flux from electronic assembly, or light oils from precision parts. The formula is non-hazardous, non-toxic, has no VOCs, non-flammable, no glycol ethers, does not attack aluminum and is used in in-line or batch equipment.

Aqueous, alkaline, etchant cleaners for ferrous and non-ferrous applications. Aqueous, acidic, neutral, and alkaline oil rejecting cleaners with or without glycol ethers for ferrous and non-ferrous applications. Water miscible, semi-aqueous cleaners (electronics cleaning). Water emulsifiable cleaners containing aliphatic and terpene solvents. Evaporative oils for no clean applications.

Systems incorporating a variety of aqueous cleaning techniques which include filtered negative pressure chambers, high pressure chambers, and mobile cleaning systems.

Precision cleaning equipment (primarily ultrasonic systems) from standard wash-rinse-dry cleaning consoles to large custom automated batch cleaning equipment. Ultrasonic generator is sweep frequency generator capable of cavitating both aqueous and semi-aqueous chemistries. Full line of aqueous-based cleaning chemistries for ultrasonic applications as well.

Dell-Chem of Arizona
P.O. Box 6633
Scottsdale, AZ 85261
Tel: (602) 788-8684
Fax: (602) 948-4172

Delta-Omega Technologies, Ltd.
PO Box 81518
Lafayette, LA 70598-1518
Tel: (318) 237-5091
Fax: (318) 237-5131

Detrex Corp.
24901 Northwestern Highway
Southfield, MI 48075
Tel: (313) 358-5800
Fax: (313) 358-5803

Dow U.S.A.
Midland, MI 48674
Tel: (800) 447-4369
Fax: (517) 832-1465

Ecolink
1481 Rock Mountain Blvd.
Stone Mountain, GA 30083
Tel: (404) 621-8240
(800) 886-8240
Fax: (404) 621-8245

Electrolube Corporation USA
10 Skyline Dr.
Hawthorne, NY 10532
Tel: (914) 347-7300

Corpex
P.O. Box 13486
Research Triangle Park, NC 27709-3486
Tel: (919) 941-0847
Fax: (919) 941-0652

Aqueous and alcohol-based cleaners for low residue degreasing and dewaxing applications. Formulations are nonflammable and nonfuming.

Fully aqueous, biodegradable, non-toxic cleaning solutions. Products leave no residue following proper cleaning and rinsing, no fumes or odors, are non-flammable, and contain no hazardous or reportable components.

Aqueous micro-emulsion solution for gross metal cleaning and equipment for use with the cleaning solution. Alternative/vapor degreasing process, specialty equipment and solvents for metals and electronics cleaning, chlorinated and HCFC solvents, and aqueous and semi-aqueous solvents.

Multiple formulations composed of blends of anionic and nonionic surfactants with corrosion inhibitors and builders.

Wide range of aqueous, semi-aqueous and non-aqueous chemistries. Formulations include a variety of hydrocarbon, NMP, DBE and terpene products as well as non-ozone depleting halogenated solvents. Manufacture a complete line of batch cleaning units for use with these solvents.

Non-toxic, non-flammable, biodegradable aqueous solvents suitable for in-line and batch equipment without modification. Also ideal for screen and pallet cleaning and precision metal degreasing (ferrous and non-ferrous).

A wide variety of corrosion inhibitors, hydrocarbon emulsifiers and carbon product removers that are non-hazardous and non-toxic.

ETUS, Inc.
1511 Kastner Place
Sanford, FL 32771
Tel: (407) 321-7910
Fax: (407) 321-3098

Fine Organics Corp.
205 Main St.
PO Box 687
Lodi, NJ 07644-0687
Tel: (201) 472-6800
(800) 526-7480
Fax: (201) 472-6810

Fremont Industries, Inc.
4400 Valley Industrial Park
Shakopee, MN 55379
Tel: (612) 445-4121
Fax: (612) 496-3027

Hubbard-Hall, Inc.
PO Box 790
Waterbury, CT 06725
Tel: (203) 754-2171
(800) 648-3412
Fax: (203) 596-9544
(203) 756-9017

Hurricane Systems, Inc.
2080 Brooklyn Rd.
PO Box 867
Jackson, MI 49204
Tel: (517) 787-3481
Fax: (517) 787-2349

Hurri-Kleen Corp.
6000 Southern Industrial Dr.
Birmingham, AL 35235
Tel: (205) 655-8808
Fax: (205) 655-5392

Formulations made of hydrocarbons and blends of hydrocarbons and emulsifiers. Also offer aqueous-based formulations containing detergents with and without glycol ethers.

Non-hazardous and biodegradable solvent and solvent-emulsion based alternatives. Products are applicable to the transportation, aviation, electronics, and coatings industries. Also offer water-based alternative products.

Aqueous-based metal cleaning and non-metallic substrate cleaning formulations and application equipment. Includes spray, soak, and ultrasonic cleaners in rinse and no-rinse formulations.

Wide range of "off-the-shelf", semi-custom, and custom parts cleaning systems using water-based cleaning compounds. Systems include: belt, rotary and overhead conveyors for continuous and batch processing; carousel, cabinet, and agitation tank washers; multi-stage wash, rinse, oxidation inhibit, and dry; oil removal and oil skimming devices; electric, gas, and steam heat packages.

Aqueous-based biodegradable cleaners with and without glycol ethers.

Inland Technology, Inc.
401 East 27th St.
Tacoma, WA 98421
Tel: (253) 922-8932
(800) 552-3100
Fax: (206) 926-0577

Range of aqueous cleaners used in hand-wipe cleaning. Also other non ozone-depleting biodegradable solvents for various cleaning applications, including vapor degreasing, precision cleaning, paint stripping, and resin removal.

Insitu Environmental Chemical Co.
8402 East Redwing Rd.
Scottsdale, AZ 85250-5740
Tel: (602) 948-9209
Fax: (602) 951-0715

Aqueous and alcohol-based cleaners for low residue degreasing and dewaxing applications. Formulations are nonflammable and nonfuming.

International Products Corp.
P.O. Box 70
Burlington, NJ 08016-0070
Tel: (609) 386-8770
Fax: (609) 386-8438

Biodegradable formulations with low toxicity, no phosphates or CFCs used in precision and critical cleaning operations.

JM Associates, Inc.
225 Railroad Avenue
Bedford Hills, NY 10507
Tel: (914) 241-3795
Fax: (914) 241-3731

New bioremediation technology: safe, non-toxic, non-caustic, neutral pH, non-flammable aqueous cleaning solution with hydrocarbons. Has successfully replaced hazardous solvents in vehicle maintenance, metals cleaning and precision manufacturing operations. Also solvents for auto, marine, contaminated soil and grease cleaning. Application of cleaners by immersion, spray or within closed-loop industrial systems.

JnJ Industries
195 E. Main St.
Suite 303
Milford, MA 01757
Tel: (800) 554-9994
Fax: (508) 478-2221

Manufacturer of eight non-CFC formulations including a supersaturated wipe solvent.

Kester Solder Division Litton Industries
515 E. Touhy Avenue
Des Plaines, IL 60018-2675
Tel: (847) 297-1600
Fax: (847) 390-9338

Alcohol-based cleaners, solvent blends, and aqueous saponifiers. Also manufacture no-clean, water-clean, and VOC-free; fluxes, solders, and solder pastes.

Kyzen Corporation
430 Harding Industrial Drive
Nashville, TN 37211
Tel: (615) 831-0888
Fax: (615) 831-0889

A broad line of non-hazardous, zero ODP, biodegradable, and low VOC cleaning products. Kyzen products are used for cold cleaning, immersion solvent cleaning, and aqueous spray cleaning. These materials are compatible with a wide range of cleaning machines: spray in air, spray in immersion, soak, and ultrasonic. Kyzen products can be used in closed looped systems for low/zero discharge by a variety of commonly available water reuse systems.

Lewis Corp.
102 Willenbrock Rd.
Oxford, CT 06478-1033
Tel: (203) 264-3100
Fax: (203) 264-3102

Manufacturer of industrial cleaning systems, specializing in aqueous-based chemistries. Both ultrasonic and non-ultrasonic washers available.

MacDermid, Inc.
245 Freight St.
Waterbury, CT 06702
Tel: (203) 575-5700
Fax: (203) 575-5630

Full range of aqueous-based formulations and terpene-based formulations for the metalworking, aerospace, automotive, electronic, military, and printing industries. Designed to meet military specifications. Products leave no residue following proper cleaning and rinsing. Formulations available with and without glycol ethers.

Modern Chemical Inc.
P.O. Box 368
Jacksonville, AR 72078
Tel: (501) 988-1311
Fax: (501) 988-2229

Non-toxic, non-corrosive, and non-flammable alkaline aqueous based cleaner. Can be used in hand sprayers, dip tanks, ultrasonic, and spray wash cabinets. Safe for ferrous and non-ferrous metals. Also effective in removing flux from printed circuit boards.

Navy Brand Mfg Co.
Division of Chemstar, Inc.
3670 Scarlet Oak Blvd.
St. Louis, MO 63122
Tel: (800) 325-3312
(314) 861-5500
Fax: (314) 861-5509

Industrial degreasers for metal cleaning and parts cleaning. Formulations are based on non-ozone depleting solvents. Also solvent-based, aqueous-based and also semi-aqueous-based products for a variety of cleaning applications on a host of substrates, both metallic and non-metallic.

Neozyme International, Inc.
3333 W. Pacific Coast Hwy. 4th Floor
Newport Beach, CA 92663
Tel: (714) 650-9131
Fax: (714) 360-1193

North American BioIndustries Corp.
400 N. Executive Drive, Ste 467
Brookfield, WI 53005
Tel: (414) 789-2724
(800) 395-8070
Fax: (414) 789-2725

Oakite Products, Inc.
50 Valley Road
Berkeley Heights, NJ 07922
Tel: (908) 508-2107
Fax: (908) 464-9250

O.C.S. Systems
134 East Chestnut Ave.
Monrovia, CA 91016
Tel: (626) 305-7479
Fax: (626) 305-7485

Parker-Amchem
32100 Stephenson Highway
Madison Heights, MI 48071
Tel: (810) 583-9300

PPG Chemfil
1330 Piedmont
Troy, MI 48083
Tel: (313) 689-0720

Degreasing formulations made of plant derived enzymes and fully biodegradable emulsifiers in an aqueous solution. Unique applications in water treatment systems. Can be used in conjunction with ultrasound microwave, and other types of mechanical cleaning devices.

Aqueous surfactants and microbes for hard surface degreasing and to initiate bioremediation of oily waste water. Also offer and service bioreactors for treatment of oily waste water.

High-tech, state-of-the-art, recyclable cleaning products for use in immersion, ultrasonic, hand wipe, and other cleaning applications. Many aqueous and semi-aqueous formulations adhere to the Clean Air Act, OSHA regulations, and do not contain SARA 313 ingredients. Comprehensive lines of products that exhibit biodegradability, oil splitting or emulsifying features. Terpene-based cleaners have no flash point, and alkaline, aqueous formulations include non-phosphated, non-chelated, mildly alkaline cleaners.

Offer aqueous-based formulation containing detergents with and without EGBE. Biodegradable, sewerable. Ultrasonics, spray wash systems, dishwashers, cabinet washers for cleaning, defluxing any and all parts. Complete closed loop systems, including D.I. water systems.

PPG Industries, Inc.
Chemicals Group
1 PPG Place
Pittsburgh, PA 15272
Tel: (800) 243-6774
Fax: (412) 434-2401

Quaker Chemical Corp.
Elm & Lee Streets
Conshohocken, PA 19428-0809
Tel: (610) 832-4000
Fax: (610) 832-8682

Qual-Tech Enterprises, Inc.
1485 Bayshore Blvd.
San Francisco, CA 94124
Tel: (415) 467-7887
Fax: (415) 467-7092

R.G. Hanson Co., Inc.
703 E. Lincoln
Bloomington, IL 61701
Tel: (309) 828-5070
(800) 392-0903
Fax: (309) 829-3294

Rochester Midland Corp.
333 Hollenbeck St.
Rochester, NY 14621
Tel: (716) 336-2200
Fax: (716) 467-4406

SafeWorld Products Corp.
P. O. Box 4680
Homosassa Springs, FL 34447
Tel: (904) 382-1483
(800) 461-8714

SAMSCO, Inc.
18 Cote Avenue
Goffstown, NH 03045
Tel: (603) 668-7111
Fax: (603) 647-0537

Micro-emulsion cleaning system suitable for many metal cleaning applications. System is neutral, non-ionic, low VOC, non-combustible and biodegradable. Also contains a rust inhibitor package and features long bath life and low waste generation.

Aqueous cleaning chemicals and equipment. New equipment using only steam to clean also available.

Formulations comprised of hydrocarbon and/or terpene solvents. Some also contain surfactants. Many contain alkaline builders and chelants as well as glycol ethers. Some aqueous-based or water-compatible formulations exhibit good biodegradability. Many products allow for good oil/grease separation upon standing.

Formulations of biodegradable, ionic and non-ionic surfactants. Also low odor, micro emulsions that are non-solvent blends, and other biodegradable cleaners, degreasers, and dispersants.

The SAMSCO water evaporator evaporates efficiently and economically. Typical applications include machining/grinding coolants, alkaline cleaners, floor scrubber waters, vibratory solutions, stamping/drawing compounds, wire drawing compounds and die casting solutions.

S.A.S., Inc.
2435 North Indian Hill Blvd
Claremont, CA 91711-1730
Tel: (909) 624-0396
Fax: (909) 624-6336

Selig Chemical Industries
PO Box 43106
840 Selig Dr. SW
Atlanta, GA 30378
Tel: (404) 691-9220
Fax: (404) 699-7024

Smart Sonic Precision Cleaning Systems
2373 Teller Rd., #107
Newbury Park, CA 91320
Tel: (805) 499-7440
Fax: (805) 375-5781

SONICOR Instrument Corp.
100 Wartburg Ave.
Copiague, NY 11726
Tel: (516) 842-3344
Fax: (516) 842-3389

Star Cleaning Miracle, Inc.
P.O. Box 14
Hudsonville, MI 49426
Tel: (616) 875-7234
Fax: (616) 875-7743

Step Kare Corporation
P.O. Box 211
Highland Park, IL 60035
Tel: (708) 358-2158
Fax: (708) 358-2158

Storchem Inc.
3600 Billings Court, Suite 110
Burlington, Ontario
Canada L7N 3N6
Tel: (416) 639-9700
Fax: (416) 639-5244

Aqueous cleaning machines, part washers using spray, immersion, agitation, and ultrasonics. Range of detergents, cleaners, oil skimmers, exhaust systems, filtering systems, auto rinse systems, and hot air dryers.

Formulations made of hydrocarbons and blends of hydrocarbons and emulsifiers. Also offer aqueous-based formulations containing detergents with and without glycol ethers and some containing d-limonene.

Automated ultrasonic and spray batch cleaners for precision cleaning of metal, plastic, and ceramic parts. Systems clean oils, particulate and other contaminants. Optional waste evaporator.

Ultrasonic cleaning equipment, automated aqueous cleaning systems. Environmentally safe alternatives to cleaning with hazardous solvents.

Water-based flux remover, effective on rosin and non-rosin fluxes; aqueous coating remover. Also removes cutting oils and other contaminants. Non-aqueous coating remover contains no petroleum distillates or glycol ethers. Capable of removing conformal coatings or rosin fluxes in a non-aqueous formulation.

Aqueous-based terpene formulations containing detergents and emulsifiers; semi-aqueous cleaners and degreasers based on terpene alcohols and hydrocarbons; terpene alcohol and hydrocarbon blends used as non-water soluble solvents.

Sunshine Makers, Inc./Simple Green
15922 Pacific Coast Highway
Huntington Harbor, CA 92649
Tel: (310) 795-6000
(800) 228-0709
Fax: (310) 592-3034

Surftran
Division of Robert Bosch Corporation
30250 Stephenson Hwy
Madison Heights, MI 48071
Tel: (810) 691-2560
Fax: (810) 847-0206

SWR Corporation
127 East Washtenaw
Lansing, MI 48933
Tel: (517) 487-6390
Fax: (517) 487-8205

Terpene Technologies Inc.
3400 Ridge Rd. W, Suite 293
Rochester, NY 14626
Tel: (716) 546-8455
(716) 777-0790
Fax: (716) 227-3834

Texo Corp.
2801 Highland Ave.
Cincinnati, OH 45212
Tel: (513) 731-3400
Fax: (513) 731-8113

Thierica
900 Clancy Ave.
Grand Rapids, MI 49503
Tel: (616) 458-1538
Fax: (616) 458-7120

Concentrated aqueous-based non-toxic, biodegradable, non-flammable cleaner/degreaser containing a blend of high-grade penetrants and surfactants which are activated by water.

Precision and non-precision aqueous cleaning equipment. Environmentally sound chemical cleaners and rust inhibitors for aqueous cleaning.

Cleaners include biodegradable, non-toxic, aqueous cleaner/degreaser surfactants that have a powerful affinity for removing grease, oil and grime emulsions. The SWR™ cleaners also remove oils and grease coatings from machine and electronic parts with no remaining residue. As non-toxic compounds, SWR™ cleaners reduce associated end-use disposal costs.

Terpene alcohol and hydrocarbon blends used as non-water soluble solvents, semi-aqueous cleaners and degreasers based on terpene alcohols and hydrocarbons. Also offer aqueous-based terpene formulations containing detergents and emulsifiers.

Aqueous, semi-aqueous, and various solvent cleaners for replacement of vapor degreasing and handwiping with solvents. Applications of cleaners can be spray immersion, ultrasonic or handwiping. Cleaners can be multimetal safe and contain corrosion inhibitors if necessary.

New low cost spray equipment manages extremely difficult cleaning jobs. Used with large and small parts containing baked grease and paint soils. Designed to be safe and environmentally secure with hydrocarbon and aqueous cleaning agents. Stainless steel construction.

Today & Beyond
PO Box 690
Ashland, OH 44805
Tel: (419) 945-2628

Ultrasound Fabrications, Inc.
1 Maple St.
Shelton, CT 06484
Tel: (203) 924-1624
Fax: (203) 924-1625

Unitech Industrial Inc.
PO Box 330
16 South Ave,
Wappingers Falls, NY 12590
Tel: (914) 297-0745
(800) 277-5522
Fax: (914) 297-2919

United Laboratories, Inc.
320 37th Ave.
St. Charles, IL 60174
Tel: (708) 773-0252
Fax: (708) 773-0595

U.S. Polychemical Corp.
Route 45 Chestnut Ridge Road
Chestnut Ridge, NY 10977
Tel: (914) 356-5530
(800) 431-2072
Fax: (914) 356-6656

Working Solutions, Inc.
938 Cortlandt Street
Houston, TX 77008
Tel: (800) 829-4419
Fax: (713) 862-5591

Specialty industrial cleaners formulated utilizing SPC to meet the needs and cleaning requirements for the aerospace, aircraft, automotive, electronics, marine, military and nuclear industries. Existing vapor tanks can be used with minor modification in most cases.

Ultrasonic parts washing systems with standard tank volumes of 5, 10, 20, and 30 gallons, as well as special sizes if required. Systems provide for ultrasonic washing, spray or different types of immersion rinsing and hot air drying to achieve clean, dry, spot free parts.

Closed loop industrial cleaning systems. Spray washers, batch cleaning systems, vapor degreasing, and pretreatment systems available in new equipment and retrofits. Waste water treatment and recycling, 100% oil removal from the cleaning process.

Aqueous cleaners for use on most metals. Can be used from ambient temperatures to 200°, direct spray, spray under immersion, or in ultrasonic operations.

Manufacturers of oil and grease buffing compounds, flux removing chemistries with non-chlorinated solvents, semi-aqueous, and aqueous technologies. Also automated cleaning systems with recirculating agitation or ultrasonics for turn-key applications.

Aqueous, semi-aqueous and solvent cleaning technologies and equipment.

W.R. Grace & Co.
Metalworking Fluids Group
55 Hayden Ave.
Lexington, MA 02173
Tel: (617) 861-6600
Fax: (617) 861-9066

Zelman International Ltd.
PO Box 1112
Studio City, CA 91614
Tel: (818) 786-9488
(310) 576-6830 sales
Fax: (818) 787-8560
(310) 576-6832

Zip-Chem Products
1860 Dobbin Dr.
San Jose, CA 95133
Tel: (408) 729-0291
(800) 648-2661
Fax: (408) 272-8062

AQUEOUS CLEANING EQUIPMENT

ACCEL
1825 E. Piano Parkway
Piano, TX 75074-8129
Tel: (214) 424-3525
Fax: (214) 424-7526

ACME-FAB
Div. of A-F Industries
11337 Williamson Rd.
Cincinnati, OH 45249
Tel: (513) 489-3060
Fax: (513) 489-6018

Wide range of aqueous cleaning formulations for metal. precision, and maintenance cleaning. Includes formulations that are phosphate-free. Suitable for agitation, soak, spray, ultrasonic and hand wipe applications.

Homogeneous blend of colloids, surfactants, hyper-wetting agents and water in an industrial non-toxic, non-caustic cleaner designed to clean commercial and military aircraft, as well as metal surfaces such as aluminum and magnesium alloys, removing mill markings, mill inks and shop soils such as dirt, coolants, lubricants, forming and cutting oils, and other common shop contaminants. Highly diluted, it is also used in ultrasonic and precision cleaning and degreasing.

Aqueous, semi-aqueous aliphatic hydrocarbon, terpene and alcohol-based cleaners. Application oriented packaging like wipes, aerosols, specialty containers, and other delivery systems available.

System utilizing centrifugal cleaning to provide superior washing, effective rinsing, and drying of populated printed circuit boards and hybrid circuits. Includes automatic solvent recycling and rinse water purification with no required drain. Compatible with chlorocarbons, fluorocarbons, H₂O, and terpenes.

Batch and conveyORIZED spray cleaning systems, standard machines, or custom designed equipment. Also offer automatic immersion systems incorporating rotation agitation and pump turbulence.

ADF Systems, Ltd.
1302 19th Street. N.
Humboldt, IA 50548
Tel: (515) 332-5400
Fax: (800) 798-5100

Offers detergents both liquid and powder designed for use in all type of aqueous washing equipment. Offers non-foaming formulations with and without glycol ethers and with and without rust inhibitors for all applications. Has parts washing equipment designed for the type of uses experienced in maintenance operations.

Advanced Curing Systems, Inc.
3701 S. Ashland Ave.
Chicago, IL 60609
Tel: (312) 247-3600

Advanced Deburring and Finishing
25 Marianne Dr.
PO Box 2491
York, PA 17405
Tel: (717) 767-4843
(800) 553-7060

Altos Engineering, Inc.
6009 N. 61 Ave
Glendale, AZ 85301
Tel: (602) 931-8434
Fax: (602) 937-6396

Batch and inline cleaning equipment with non-chemical, thermal vacuum drying of rinse waters. Detergent formulations available with and without glycol ethers.

American Metal Wash, Inc.
PO Box 265
360 Euclid Ave.
Cannonsburg, PA 15317
Tel: (412) 746-4203
Fax: (412) 746-5738

Bearing washer for precision cleaning of final assembled race bearings, including points of contact. Equipment can be provided in single or multi-stages for accommodations of washing, rinsing, rust inhibiting, and thorough drying of each bearing. Can accommodate bearing diameters of 7/8" to 20" and can be setup for use with aqueous or semi-aqueous cleaning solutions.

Amtrex Technologies Inc.
3361 Boulevard Griffith
Saint-Laurent QC
Canada H4T 1W5
Tel: (514) 739-0233
Fax: (514) 739-1581

Aqueous ultrasonic cleaning/degreasing systems for the metalworking, aerospace, automotive, military, and plating industries.

Ardrox
16961 Knott Avenue
La Mirada, CA 90638
Tel: (714) 739-2821
Fax: (714) 670-6480

ATCOR Corp.
150 Great Oaks Blvd.
San Jose, CA 95119-1367
Tel: (408) 629-6080
(800) 827-6080
Fax: (408) 629-9009

Babcock & Wilcox CIM Systems
4004 Murray Place
Lynchburg, VA 24501
Tel: (804) 948-1361
Fax: (804) 948-1313

Baron-Blakeslee, Inc.
1500 West 16th St.
Long Beach, CA 90813
Tel: (800) 548-4422
Fax: (310) 491-1091

Barrett Centrifugals
Box 15059
Worcester, MA 01615-0059
Tel: (508) 755-4306
(800) 228-6442
Fax: (508) 753-4805

Better Engineering Mfg., Inc.
8361 Town Center Court
Baltimore, MD 21236
Tel: (410) 931-0000
(800) 229-3380
Fax: (410) 931-0053

Full range of aqueous-based formulations as well as aliphatic hydrocarbon-based blends, terpene-based formulations, hydrocarbon-based solvent blends and other cleaning alternatives and equipment.

Provide turnkey automated cleaning and inspection (SQC/SPC) systems for complete integration into process cleaning lines, including aqueous and non-aqueous systems, material handling, drying, cleanliness and geometric inspection, and computer protocol communication. Full-scope of services from process selection, development, installation, training, and continued follow-up support.

Full line of cleaning equipment for use with aqueous, semi-aqueous, HCFC, and chlorinated solvents. Closed loop system incorporating vacuum drying available (near zero emissions).

Centrifugal equipment for washing and drying small, irregularly shaped parts using detergent/water solution. With custom fixturing, can be adapted for larger, more complex parts or assemblies.

Manufacturers of industrial cleaning equipment, including automatic jet washers compatible with biodegradable detergents and water solutions. Also cleaning systems with wash, rinse, and dry cycles, custom systems, extended wash cabinets, large capacity systems, and tumbling systems.

Bio-Chem of Illinois, Inc.
3335 No. Lewis Avenue
Waukegan, IL 60087
Tel: (708) 249-5770
Fax: (708) 623-6919

Blackstone Ultrasonics, Inc.
9 North Main St.
Jamestown, NY 14701
Tel: (716) 665-2340
(800) 766-6606
Fax: (716) 665-2480

Blue Wave Ultrasonics
Div. of Alpheus Cleaning Technologies Corp.
960 S. Rolff St.
Davenport, IA 52802
Tel: (319) 322-0144
(800) 373-0144
Fax: (319) 322-7180

Bowden Industries Inc.
1004 Oster Dr. NW
Huntsville, AL 35816
Tel: (800) 553-3637

Branson Ultrasonics Inc.
41 Eagle Rd.
Danbury, CT 06810
Tel: (203) 796-0400
Fax: (203) 796-0381

CD Nelson Manufacturing Company
28979 North Herkey Drive
Lake Bluff, IL 60044
Tel: (708) 362-3555
Fax: (708) 362-0154

Complete range of ultrasonic cleaning products from stand-alone and bench-top heated tanks to wash/multiple rinse/dry console systems with optional material handling and automation. Also, fluxless ultrasonic solder pots for tinning leads and electronics.

Ultrasonic cleaning equipment built for various applications specific to the customer's needs. Effective in cleaning different products and materials throughout the scope of fabricated metals, plastics, and ceramics. Also offer aqueous-based detergents that are environmentally safe.

Ultrasonic cleaning equipment and integrated cleaning systems for metal, electronic, and precision cleaning requirements. Manual and fully automated material handling/transport systems. Equipment for aqueous, semi-aqueous and solvent chemistry.

Steam cleaning equipment for removing polishing paste, oils, pollutants, and other contaminants from metals, plastics, ceramics, silicone wafers. Removal of small burrs, rouges, casting materials, waxes from precious metals, ferrous and non-ferrous metals, ceramics, plastics. Ultrasonic cleaning of all above materials.

Chem-Tech International
1800 Diagonal Rd., Suite 600
Alexandria, VA 22314
Tel: (703) 549-1001
Fax: (703) 549-1003

Cincinnati Industrial Machinery
PO Box 62027
3280 Hageman St.
Cincinnati, OH 45241 (street add.)
45262 (PO Box)
Tel: (513) 769-0700
Fax: (513) 769-0697

Conax Buffalo Corporation
2300 Walden Avenue
Buffalo, NY 14225
Tel: (716) 684-4500
(800) 223-2389
Fax: (716) 684-7433

Container Products Corp.
PO Box 3767
Wilmington, NC 28406
Tel: (919) 392-6100
Fax: (919) 392-6778

Creative Enterprizes
105 Anyway, Suite 209
Lake Jackson, TX 77566
Tel: (409) 292-0244
Fax: (409) 292-0440

Crest Ultrasonics
Scotch Rd. - Mercer County Airport
PO Box 7266
Trenton, NJ 08628
Tel: (609) 883-4000
(800) 441-9675
Fax: (609) 883-6452

Aqueous-based formulations containing detergents with and without glycol ethers as well as blends of hydrocarbons and emulsifiers which, when used in combination, provide residue-free cleaning. Can be used on all metals, teflon, plastic, and painted coatings. Also specially designed cleaning equipment.

Custom designed machines for cleaning, surface preparation and other processing of metal and non-metallic parts.

Ultrasonic cleaning equipment and systems for cleaning machine components, fabricated parts, assemblies. Related support devices available.

Systems incorporating a variety of aqueous cleaning techniques which include filtered negative pressure chambers, high pressure chambers, and mobile cleaning systems.

Specialize in low cost conversion of existing facilities to safely use alternative cleaning agents. Design new or custom cleaning equipment and processes. Also design environmentally secure drying equipment and processes.

Precision cleaning equipment (primarily ultrasonic systems) from standard wash-rinse-dry cleaning consoles to large custom automated batch cleaning equipment. Ultrasonic generator is sweep frequency generator capable of cavitating both aqueous and semi-aqueous chemistries. Full line of aqueous-based cleaning chemistries for ultrasonic applications as well.

Detrex Corporation
4000 Town Center, Suite 1100
Southfield, MI 48075
Tel: (313) 358-5800
Fax: (313) 358-5803

Durr Industries, Inc.
10301 Enterprises Dr.
Davisburg, MI 48350
Tel: (313) 625-5400
Fax: (313) 625-5966

Ecolink
1481 Rock Mountain Blvd.
Stone Mountain, GA 30083
Tel: (404) 621-8240
(800) 886-8240
Fax: (404) 621-8245

Electronic Controls Design, Inc.
4287-A SE International Way
Milwaukie, OR 97006
Tel: (503) 659-6100
(800) 323-4548
Fax: (503) 659-4422

Environmental Recovery Resources, Inc.
PO Box 36
South Salem, NY 10590
Tel: (914) 533-6175
Fax: (914) 533-6275

FMT Inc. (Findlay Machine & Tool)
1950 Industrial Dr.
Findlay, OH 45840
Tel: (419) 422-0768
(800) 878-8011
Fax: (419) 422-0072

Aqueous micro-emulsion solution for gross metal cleaning and equipment for use with the cleaning solution. Alternative/vapor degreasing process, specialty equipment and solvents for metals and electronics cleaning, chlorinated and HCFC solvents, and aqueous and semi-aqueous solvents.

All aqueous and semi-aqueous systems recycle and reuse process water. Solvent systems reduce emissions by 99% over conventional degreasing systems.

Wide range of aqueous, semi-aqueous and non-aqueous chemistries. Formulations include a variety of hydrocarbon, NMP, DBE and terpene products as well as non-ozone depleting halogenated solvents. Manufacture a complete line of batch cleaning units for use with these solvents.

Floating, dispersed, and dissolved hydrocarbon contaminants removed to surface water discharge limits, using: no coalescing plates, no centrifugal, no carbon absorption, no sorbent waste. Also offer systems and services to extend cleaning bath 'life' for more cost effective aqueous systems and waste water processing, and waste-minimized settling-pond and separator maintenance/remediation.

Custom engineered parts cleaning equipment, standard parts cleaning equipment, and pollution control equipment.

Finishing Equipment Inc.
3640 Kennebec Dr.
St. Paul, MN 55122
Tel: (612) 452-1860
Fax: (612) 452-9851

Forward Technology Ind. Inc.
13500 County Rd. 6
Minneapolis, MN 55441
Tel: (612) 559-1785
Fax: (612) 559-3929

Fremont Industries, Inc.
4400 Valley Industrial Park
Shakopee, MN 55379
Tel: (612) 445-4121
Fax: (612) 496-3027

George Koch Sons Inc.
10 South 11th Ave.
Evansville, IN 47744
Tel: (812) 426-9600
Fax: (812) 465-9724

Graymills Corporation
3705 N. Lincoln Ave.
Chicago, IL 60613-3594
Tel: (312) 248-6825
(312) 477-4100
Fax: (312) 477-8673

The Hotsy Corp.
21 Inverness Way E.
Englewood, CO 80112-5796
Tel: (303) 792-5200

Aqueous, semi-aqueous and solvent cleaning systems available. From manual systems to automated high-production cleaning lines, with ultrasonics available as needed. Specialize in automated enclosed vapor degreasers for efficient use of the non-ozone depleting chlorinated solvents.

Standard and custom aqueous, systems featuring batch and part-by-part high speed automation, ultrasonics, high pressure sprays, hot air drying, IPA drying, vacuum dryers, and environmentally controlled enclosures. Also, semi-aqueous and solvent formulations available.

Aqueous-based metal cleaning and non-metallic substrate cleaning formulations and application equipment. Includes spray, soak, and ultrasonic cleaners in rinse and no-rinse formulations.

Hurricane Systems, Inc.
2080 Brooklyn Rd.
PO Box 867
Jackson, MI 49204
Tel: (517) 787-3481
Fax: (517) 787-2349

Hurri-Kleen Corp.
PO Box 29
Trussville, AL 35173
Tel: (205) 655-8808
Fax: (205) 655-5392

Hydro-Blast, Inc.
6917 NE 39th Court
Vancouver, WA 98661
Tel: (206) 690-4400
Fax: (206) 696-5948

Jensen Fabricating Engineers, Inc.
PO Box 307
East Berlin, CT 06023
Tel: (203) 828-6516

JM Associates, Inc.
225 Railroad Avenue
Bedford Hills, NY 10507
Tel: (914) 241-3795
Fax: (914) 241-3731

K.E.W. Cleaning Systems, Inc.
130B E. St. Charles Rd.
Carol Stream, IL 60188
Tel: (708) 690-3000

Wide range of "off-the-shelf", semi-custom, and custom parts cleaning systems using water-based cleaning compounds. Systems include: belt, rotary and overhead conveyors for continuous and batch processing; carousel, cabinet, and agitation tank washers; multi-stage wash, rinse, oxidation inhibit, and dry; oil removal and oil skimming devices; electric, gas, and steam heat packages.

Aqueous-based biodegradable cleaners with and without glycol ethers.

Full line of cabinet style aqueous cleaning systems with built in waste water evaporation system. Cleaning solution can be heated with electricity or natural gas. Systems available in powder coated or all stainless steel.

New bioremediation technology: safe, non-toxic, non-caustic, neutral pH, non-flammable aqueous cleaning solution with hydrocarbons. Has successfully replaced hazardous solvents in vehicle maintenance, metals cleaning and precision manufacturing operations. Also solvents for auto, marine, contaminated soil and grease cleaning. Application of cleaners by immersion, spray or within closed-loop industrial systems.

Kleer-Flo Company
15151 Technology Dr.
Eden Prairie, MN 55344
Tel: (612) 934-2555
(800) 328-7942
Fax: (612) 934-3909

KLN Ultraschall GmbH
Siegfriedstrasse 124
D-64646 Heppenheim
GERMANY
Tel: +49-6252-14-0
Fax: +49-6252-14-277

Lewis Corp.
102 Willenbrock Rd.
Oxford, CT 06478-1033
Tel: (203) 264-3100
Fax: (203) 264-3102

NAPCO
Plymouth Industrial Park
Terryville, CT 06786
Tel: (203) 589-7800
Fax: (203) 589-7304

Ney Ultrasonics
1280 Blue Hills Avenue
Bloomfield, CT 06002
Tel: (203) 286-6149
Fax: (203) 286-6150

O.C.S. Systems
PO Box 370
429 Madera St.
San Gabriel, CA 91778-0370
Tel: (818) 458-2471
Fax: (818) 458-2437

Standard and custom aqueous systems featuring various types of batch automation, ultrasonics, high pressure sprays, hot air drying, IPA drying, vacuum dryers. Environmentally controlled enclosures. Also, semi-aqueous and solvent formulations available.

Manufacturer of industrial cleaning systems, specializing in aqueous-based chemistries. Both ultrasonic and non-ultrasonic washers available.

Equipment for batch/manual and batch/automated cleaning using aqueous, water-miscible, semi-aqueous, and solvent chemistries. Complete application development laboratory to assist users.

Aqueous-based formulation containing detergents with and without EGBE. Biodegradable, sewerable. Ultrasonics, spray wash systems, dishwashers, cabinet washers for cleaning, defluxing any and all parts. Complete closed loop systems, including D.I. water systems.

Proceco
7300 Tellier St.
Montreal, Quebec
Canada H1N 3T7
Tel: (514) 254-8494
Fax: (514) 254-8184
(514) 254-6922

Ramco Equipment Corporation
32 Montgomery Street
Hillside, NJ 07205
Tel: (908) 687-6700
Fax: (908) 687-0653

Ransohoff Co.
North 5th St at Ford Boulevard
Hamilton, OH 45011
Tel: (513) 863-5813
(800) 248-WASH
Fax: (513) 863-8908

Rapid Engineering, Inc.
P.O. Box 700
1100 Seven Mile Road N.W.
Comstock Park, MI 49321-0700
Tel: (616) 784-0500
Fax: (616) 784-0435

R.G. Hanson Co., Inc.
703 E. Lincoln
Bloomington, IL 61701
Tel: (309) 828-5070
(800) 392-0903
Fax: (309) 829-3294

RotoJet
2819 San Fernando Blvd.
Burbank, CA 91504
Tel: (818) 841-1520
Fax: (818) 841-6448

Aqueous spray washers (turntable, belt conveyor, and immersion types). Also supply contaminated cleaning solutions recycling systems.

Standard line of single and multi-station aqueous degreasing systems with a wide selection of options including platform oscillation, directional turbulence, oil removal, ultrasonics, filtration, parts rotators and dryers. Nationwide network of application engineers to assist from process development through installation.

Standard and custom aqueous and semi-aqueous cleaning equipment for small through high production parts cleaning requirements, as well as very small to large part configurations and various part materials. Expertise in precision cleaning. Patented, mechanically agitated aqueous technology for high volume intricately shaped or machined parts as a direct replacement of solvent vapor degreasing and ultrasonic cleaning systems.

Parts washers utilizing low to medium pressure spraying of aqueous solutions on metal and plastic substrates. Exhaust incinerators for lowering VOC discharge to the atmosphere.

Aqueous cleaning chemicals and equipment. New equipment using only steam to clean also available.

SAMSCO, Inc.
18 Cote Avenue
Goffstown, NH 03045
Tel: (603) 668-7111
Fax: (603) 647-0537

S.A.S., Inc.
2435 North Indian Hill Blvd
Claremont, CA 91711-1730
Tel: (909) 624-0396
Fax: (909) 624-6336

S & C Co., Ltd.
North America Division
PO Box 902141
Palmdale, CA 93590-2141
Tel: (805) 267-0799
Fax: (805) 267-2324

Smart Sonic Precision Cleaning Systems
2373 Teller Rd., #107
Newbury Park, CA 91320
Tel: (805) 499-7440
Fax: (805) 375-5781

SONICOR Instrument Corp.
100 Wartburg Ave.
Copiague, NY 11726
Tel: (516) 842-3344
Fax: (516) 842-3389

Sonitech Inc.
239 East Stephenson St.
Freeport, IL 61032
Tel: (815) 235-2400
Fax: (815) 232-2150

Stoelting
502 Highway 67
Kiel, WI 53042
Tel: (414) 894-2293
(800) 558-5807
Fax: (414) 894-7029

The SAMSCO water evaporator evaporates efficiently and economically. Typical applications include machining/grinding coolants, alkaline cleaners, floor scrubber waters, vibratory solutions, stamping/drawing compounds, wire drawing compounds and die casting solutions.

Aqueous cleaning machines, part washers using spray, immersion, agitation, and ultrasonics. Range of detergents, cleaners, oil skimmers, exhaust systems, filtering systems, auto rinse systems, and hot air dryers.

Four frequency ultrasonic generator and ultrasonic spray cleaner suited for the cleaning of silicon wafers and other precision parts.

Automated ultrasonic and spray batch cleaners for precision cleaning of metal, plastic, and ceramic parts. Systems clean oils, particulate and other contaminants. Optional waste evaporator.

Ultrasonic cleaning equipment, automated aqueous cleaning systems. Environmentally safe alternatives to cleaning with hazardous solvents.

Ultrasonic cleaning equipment using aqueous or semi-aqueous chemistries for a wide range of applications. Complete systems include cleaning tanks, rinse tanks, dryers and closed loop rinse water recirculation systems. System uses alcohol or other solvents with perfluorinated chemistry for rinsing and drying non-water contact applications.

Surface Dynamics Inc.
9185 General Court
Plymouth, MI 48170
Tel: (313) 459-0010

Surftran
Division of Robert Bosch Corporation
30250 Stephenson Hwy
Madison Heights, MI 48071
Tel: (810) 691-2560
Fax: (810) 847-0206

Swen Sonic Corp.
PO Box 4347
Davenport, IA 52808
Tel: (319) 322-0144
Fax: (319) 322-7180

Tally Cleaning Systems
Division of Metfab Engineering
332 John Diestch Blvd.
Attleboro Falls, MA 02763
Tel: (508) 695-1007
Fax: (508) 695-6335

Thierica
900 Clancy Ave.
Grand Rapids, MI 49503
Tel: (616) 458-1538
Fax: (616) 458-7120

Tiyoda Mfg. U.S.A., Inc.
1613 Lockness Place
Torrance, CA 90501
Tel: (310) 539-5471
Fax: (310) 539-5881

Ultrasound Fabrications, Inc.
1 Maple St.
Shelton, CT 06484
Tel: (203) 924-1624
Fax: (203) 924-1625

Precision and non-precision aqueous cleaning equipment. Environmentally sound chemical cleaners and rust inhibitors for aqueous cleaning.

Single and multiple stage ultrasonic cleaning systems which utilize aqueous-based cleaning formulations. Complete systems available which include ultrasonic, wash, rinse, rustinhibit, hot air dry, particle filtration, oil separation, etc. Standard or custom engineered units.

New low cost spray equipment manages extremely difficult cleaning jobs. Used with large and small parts containing baked grease and paint soils. Designed to be safe and environmentally secure with hydrocarbon and aqueous cleaning agents. Stainless steel construction.

Vacuum desiring ultrasonic batch cleaning system provides instantaneous cleaning solution penetration into small tubes and holes and promotes superior cleaning. Vacuum drying system uses vacuum, hot air, ultra-pure steam heating and far-infrared heater.

Ultrasonic parts washing systems with standard tank volumes of 5, 10, 20, and 30 gallons, as well as special sizes if required. Systems provide for ultrasonic washing, spray or different types of immersion rinsing and hot air drying to achieve clean, dry, spot free parts.

Unique Industries, Inc.
PO Box 417
Mohawk Ave. Extension
Derby, CT 06418
Tel: (203) 735-8751

Unitech Industrial Inc.
PO Box 330
16 South Ave,
Wappingers Falls, NY 12590
Tel: (914) 297-0745
(800) 277-5522
Fax: (914) 297-2919

U.S. Polychemical Corp.
Route 45 Chestnut Ridge Road
Chestnut Ridge, NY 10977
Tel: (914) 356-5530
(800) 431-2072
Fax: (914) 356-6656

Vitronics Corp.
Forbes Rd.
Newmarket Industrial Park
Newmarket, NH 03857
Tel: (603) 659-6550
Fax: (603) 659-7194

Working Solutions, Inc.
938 Cortlandt Street
Houston, TX 77008
Tel: (800) 829-4419
Fax: (713) 862-5591

SEMI-AQUEOUS CLEANERS
Aliphatic Hydrocarbon-Based

Aerocote Corporation
P.O. Box 15849
Houston, TX 77220
Tel: (713) 224-6185
Fax: (713) 223-5229

Closed loop industrial cleaning systems.
Spray washers, batch cleaning systems, vapor
degreasing, and pretreatment systems
available in new equipment and retrofits.
Waste water treatment and recycling, 100%
oil removal from the cleaning process.

Manufacturers of oil and grease buffing
compounds, flux removing chemistries with
non-chlorinated solvents, semi-aqueous, and
aqueous technologies. Also automated
cleaning systems with recirculating agitation
or ultrasonics for turn-key applications.

Inline aqueous and semi-aqueous cleaning
equipment with closed loop water treatment
systems.

Aqueous, semi-aqueous and solvent cleaning
technologies and equipment.

Aqueous, semi-aqueous cleaners and
hydrocarbon solvents. Applications using
agitation including spray wash cabinets. Also,
spray in steam cleaning, pressure washing,
soak immersion, ultrasonic, and hand wiping
applications.

Aervoe-Pacific Co., Inc.
1198 Sawmill Road
Gardnerville, NV 89410
Tel: (702) 782-0100
Fax: (702) 782-4027

ARCO Chemical Co.
3801 West Chester Pike
Newtown Square, PA 19073-2387
Tel: (215) 359-2441
Fax: (215) 359-5753

Ardrox
16961 Knott Avenue
La Mirada, CA 90638
Tel: (714) 739-2821
Fax: (714) 670-6480

A.W. Chesterton
225 Fallon Road
Middlesex Industrial Park
Stoneham, MA 02180-2999
Tel: (617) 438-7000
Fax: (617) 438-8971

Brulin Corporation
PO Box 270
2920 Dr. Andrew J. Brown Ave.
Indianapolis, IN 46206
Tel: (317) 923-3211
Fax: (317) 925-4596

Chemical Solvents, Inc.
3751 Jennings Road
Cleveland, OH 44109
Tel: (216) 741-9310
Fax: (216) 741-4080

Hydrocarbon, alcohol and HFC-based cleaners, defluxers, lubricants, dust off and circuit freezing formulations designed for electronics. All products sold contain zero ozone depleting substances.

Full range of aqueous-based formulations as well as aliphatic hydrocarbon-based blends, terpene-based formulations, hydrocarbon-based solvent blends and other cleaning alternatives and equipment.

A complete line of aqueous cleaners containing detergents, with and without glycol ethers. Hydrocarbon solvents and solvent blends. Non-ozone depleting chlorinated solvents. Provide free assistance to customers wishing to replace ozone-depleting chemicals. Synthetic machining fluids, lubricants and maintenance specialties.

Advanced technology aqueous detergent systems for spray, immersion, ultrasonic, and passive process cleaning of fabricated metal or plastic parts.

Aliphatic hydrocarbon blends, terpenes, surfactants, biodegradable emulsifiers, non-ozone depleting halogenated solvents, HCFCs. Specialty formulations for metal, urethane fiberglass (resin) clean-up processes via spray, wipe and immersion systems. Turn-key parts cleaning services. Recycling, disposal of generated waste solvents and waters.

Chemtronics, Inc.
8125 Cobb Center Dr.
Kennesaw, GA 30144
Tel: (404) 424-4888
Fax: (404) 424-4267

Circle-Proscio, Inc.
2017 Yost Ave.
Bloomington, IN 47403
Tel: (812) 339-3653
Fax: (812) 331-2566

Cobehn, Inc.
640 Airport Road
Winchester, VA 22602
Tel: (703) 665-0707
Fax: (703) 665-0768

Coleman Chemical, Inc.
One Gemstar Lane
Joliet, IL 60435
Tel: (815) 727-3900
Fax: (815) 727-3998

Creative Enterprizes
105 Anyway, Suite 209
Lake Jackson, TX 77566
Tel: (409) 292-0244
Fax: (409) 292-0440

Dow U.S.A.
Midland, MI 48674
Tel: (800) 447-4369
Fax: (517) 832-1465

Ecolink
1481 Rock Mountain Blvd.
Stone Mountain, GA 30083
Tel: (404) 621-8240
(800) 886-8240
Fax: (404) 621-8245

Ultra-pure cleaners for electronics and metals.

Aqueous, alkaline, etchant cleaners for ferrous and non-ferrous applications. Aqueous, acidic, neutral, and alkaline oil rejecting cleaners with or without glycol ethers for ferrous and non-ferrous applications. Water miscible, semi-aqueous cleaners (electronics cleaning). Water emulsifiable cleaners containing aliphatic and terpene solvents. Evaporative oils for no clean applications.

Manufacturer of a non-solvent-based precision batch cleaning system, utilizing solvent materials filtered to .2um ppm. Process removes flux, oils and particulates by agitation, wetting and drying in an inert atmosphere. Also used for hybrids, and PCBs.

Specialty formulations of non-ozone depleting HFCs available in 1995.

Specialize in low cost conversion of existing facilities to safely use alternative cleaning agents. Design new or custom cleaning equipment and processes. Also design environmentally secure drying equipment and processes.

Formulations composed of paraffinic hydrocarbons and glycol ethers and blends of paraffinic hydrocarbons, glycol ethers, and surfactants.

Wide range of aqueous, semi-aqueous and non-aqueous chemistries. Formulations include a variety of hydrocarbon, NMP, DBE and terpene products as well as non-ozone depleting halogenated solvents. Manufacture a complete line of batch cleaning units for use with these solvents.

ETUS, Inc.
1511 Kastner Place
Sanford, FL 32771
Tel: (407) 321-7910
Fax: (407) 321-3098

Fine Organics Corp.
205 Main St.
PO Box 687
Lodi, NJ 07644-0687
Tel: (201) 472-6800
(800) 526-7480
Fax: (201) 472-6810

Firefreeze Worldwide, Inc.
270 Route 46 East
Rockaway, NJ 07866
Tel: (973) 627-0722
Fax: (973) 627-2982

JnJ Industries
195 E. Main St.
Suite 303
Milford, MA 01757
Tel: (800) 554-9994
Fax: (508) 478-2221

Kleer-Flo Company
15151 Technology Dr.
Eden Prairie, MN 55344
Tel: (612) 934-2555
(800) 328-7942
Fax: (612) 934-3909

MacDermid, Inc.
245 Freight St.
Waterbury, CT 06702
Tel: (203) 575-5700
Fax: (203) 575-5630

Formulations made of hydrocarbons and blends of hydrocarbons and emulsifiers. Also offer aqueous-based formulations containing detergents with and without glycol ethers.

Non-hazardous and biodegradable solvent and solvent-emulsion based alternatives. Products are applicable to the transportation, aviation, electronics, and coatings industries. Also offer water-based alternative products.

Aqueous based degreasing, cleaning and odor eliminating formulations. Products are plant derived, environmentally friendly, non-corrosive, non-flammable, and fully biodegradable. Unique applications for waste water and sludge treatment and oil/grease separation and removal. Can be used in hand sprayers, water pressurized units, power washers, and other spray equipment.

Manufacturer of eight non-CFC formulations including a supersaturated wipe solvent.

Full range of aqueous-based formulations and terpene-based formulations for the metalworking, aerospace, automotive, electronic, military, and printing industries. Designed to meet military specifications. Products leave no residue following proper cleaning and rinsing. Formulations available with and without glycol ethers.

Micro Care Corp.
34 Ronzo Road
Bristol, CT 06010
Tel: (203) 585-7912
Fax: (203) 585-7378

Navy Brand Mfg Co.
Division of Chemstar, Inc.
5111 Southwest Avenue
St. Louis, MO 63110-3496
Tel: (800) 325-3312
(314) 865-5500
Fax: (314) 865-5509

Petroferm Inc.
5415 First Coast Highway
Fernandina Beach, FL 32034
Tel: (904) 261-8286
Fax: (904) 261-6994

P-T Technologies, Inc.
108 4th Ave. South
Safety Harbor, FL 34695
Tel: (800) 441-7874
Fax: (813) 725-9544

Ramco Equipment Corporation
32 Montgomery Street
Hillside, NJ 07205
Tel: (908) 687-6700
Fax: (908) 687-0653

The Rission Group Inc.
13349 Michigan Ave.
Dearborn, MI 48126
Tel: (313) 581-2620
Fax: (313) 581-3758

Solvent cleaners based on but not limited to terpene hydrocarbon, alcohol, or HCFC technologies. Formulations are engineered for use in non-automated hand cleaning applications where rinsing is not available. Cleaners are effective in touch-up cleaning and precision cleaning of all types of flux residues, oils, grease and grime.

Industrial degreasers for metal cleaning and parts cleaning. Formulations are based on non-ozone depleting solvents. Also solvent-based, aqueous-based and also semi-aqueous-based products for a variety of cleaning applications on a host of substrates, both metallic and non-metallic.

Broad line of formulations based on terpenes, ester, and aliphatic hydrocarbons and blends of these organic solvents with surfactants. Products are used for cold (hand) cleaning and in combination with various cleaning equipment. Products can be removed by evaporation, water, alcohols or nonflammable fluorinated solvents. Both products and rinse media can be recycled.

Non-halogenated hydrocarbon-based specialty cleaning and degreasing formulations for precision cleaning. Also offer vapor degreaser alternatives, ionic contaminant removers, acetone, MEK alternatives for specific industrial applications.

Standard line of single and multi-station aqueous degreasing systems with a wide selection of options including platform oscillation, directional turbulation, oil removal, ultrasonics, filtration, parts rotators and dryers. Nationwide network of application engineers to assist from process development through installation.

Aqueous and non-aqueous formulations containing surfactants with and without glycol ethers. Hydrocarbons and blends of hydrocarbons with emulsifiers also available.

Rochester Midland Corp.
333 Hollenbeck St.
Rochester, NY 14621
Tel: (716) 336-2200
Fax: (716) 467-4406

Selig Chemical Industries
PO Box 43106
840 Selig Dr. SW
Atlanta, GA 30378
Tel: (404) 691-9220
Fax: (404) 699-7024

Step Kare Corporation
P.O. Box 211
Highland Park, IL 60035
Tel: (708) 358-2158
Fax: (708) 358-2158

Texo Corp.
2801 Highland Ave.
Cincinnati, OH 45212
Tel: (513) 731-3400
Fax: (513) 731-8113

U.S. Polychemical Corp.
Route 45 Chestnut Ridge Road
Chestnut Ridge, NY 10977
Tel: (914) 356-5530
(800) 431-2072
Fax: (914) 356-6656

Working Solutions, Inc.
938 Cortlandt Street
Houston, TX 77008
Tel: (800) 829-4419
Fax: (713) 862-5591

Formulations comprised of hydrocarbon and/or terpene solvents. Some also contain surfactants. Many contain alkaline builders and chelants as well as glycol ethers. Some aqueous-based or water-compatible formulations exhibit good biodegradability. Many products allow for good oil/grease separation upon standing.

Formulations made of hydrocarbons and blends of hydrocarbons and emulsifiers. Also offer aqueous-based formulations containing detergents with and without glycol ethers and some containing d-limonene.

Water-based flux remover, effective on rosin and non-rosin fluxes; aqueous coating remover. Also removes cutting oils and other contaminants. Non-aqueous coating remover contains no petroleum distillates or glycol ethers. Capable of removing conformal coatings or rosin fluxes in a non-aqueous formulation.

Aqueous, semi-aqueous, and various solvent cleaners for replacement of vapor degreasing and handwiping with solvents. Applications of cleaners can be spray immersion, ultrasonic or handwiping. Cleaners can be multimetal safe and contain corrosion inhibitors if necessary.

Manufacturers of oil and grease buffing compounds, flux removing chemistries with non-chlorinated solvents, semi-aqueous, and aqueous technologies. Also automated cleaning systems with recirculating agitation or ultrasonics for turn-key applications.

Aqueous, semi-aqueous and solvent cleaning technologies and equipment.

Zip-Chem Products
1860 Dobbin Dr.
San Jose, CA 95133
Tel: (408) 729-0291
(800) 648-2661
Fax: (408) 272-8062

Terpene-Based

Aerocote Corporation
P.O. Box 15849
Houston, TX 77220
Tel: (713) 224-6185
Fax: (713) 223-5229

Ardrox
16961 Knott Avenue
La Mirada, CA 90638
Tel: (714) 739-2821
Fax: (714) 670-6480

BioChem Systems
14452 W. 44th Avenue
Golden, Colorado 80403
Tel: (303) 277-9700
(800) 777-7870
Fax: (303) 277-9596

Chemical Solvents, Inc.
3751 Jennings Road
Cleveland, OH 44109
Tel: (216) 741-9310
Fax: (216) 741-4080

Chemtronics, Inc.
8125 Cobb Center Dr.
Kennesaw, GA 30144
Tel: (404) 424-4888
Fax: (404) 424-4267

Aqueous, semi-aqueous aliphatic hydrocarbon, terpene and alcohol-based cleaners. Application oriented packaging like wipes, aerosols, specialty containers, and other delivery systems available.

Aqueous, semi-aqueous cleaners and hydrocarbon solvents. Applications using agitation including spray wash cabinets. Also, spray in steam cleaning, pressure washing, soak immersion, ultrasonic, and hand wiping applications.

Full range of aqueous-based formulations as well as aliphatic hydrocarbon-based blends, terpene-based formulations, hydrocarbon-based solvent blends and other cleaning alternatives and equipment.

Complete line of safe environmentally friendly products based on terpene chemistry for use in many cleaning and degreasing operations. Both water dilutable and non-dilutable products are offered which will remove most organic contaminants from a wide variety of substrates and leave a clean, virtually residue free surface with no adverse effects on the surface being cleaned.

Aliphatic hydrocarbon blends, terpenes, surfactants, biodegradable emulsifiers, non-ozone depleting halogenated solvents, HCFCs. Specialty formulations for metal, urethane fiberglass (resin) clean-up processes via spray, wipe and immersion systems. Turn-key parts cleaning services. Recycling, disposal of generated waste solvents and waters.

Ultra-pure cleaners for electronics and metals.

Circle-Proscio, Inc.
2017 Yost Ave.
Bloomington, IN 47403
Tel: (812) 339-3653
Fax: (812) 331-2566

Coleman Chemical, Inc.
One Gemstar Lane
Joliet, IL 60435
Tel: (815) 727-3900
Fax: (815) 727-3998

Ecolink
1481 Rock Mountain Blvd.
Stone Mountain, GA 30083
Tel: (404) 621-8240
(800) 886-8240
Fax: (404) 621-8245

Environmental Scientific, Inc.
P.O. Box 13486
Research Triangle Park, NC 27709-3486
Tel: (919) 941-0847
Fax: (919) 941-0652

Environmental Solvents Corp.
1840 Southside Blvd.
Jacksonville, FL 32216
Tel: (904) 724-1990
Fax: (904) 724-2508

Envirosolutions Inc.
335 Post Road West
Westport, CT 06880
Tel: (203) 454-5902
Fax: (203) 222-0190

Aqueous, alkaline, etchant cleaners for ferrous and non-ferrous applications. Aqueous, acidic, neutral, and alkaline oil rejecting cleaners with or without glycol ethers for ferrous and non-ferrous applications. Water miscible, semi-aqueous cleaners (electronics cleaning). Water emulsifiable cleaners containing aliphatic and terpene solvents. Evaporative oils for no clean applications.

Specialty formulations of non-ozone depleting HFCs available in 1995.

Wide range of aqueous, semi-aqueous and non-aqueous chemistries. Formulations include a variety of hydrocarbon, NMP, DBE and terpene products as well as non-ozone depleting halogenated solvents. Manufacture a complete line of batch cleaning units for use with these solvents.

A wide variety of corrosion inhibitors, hydrocarbon emulsifiers and carbon product removers that are non-hazardous and non-toxic.

Blend of coniferous (pine) terpenes with and without surfactants. Non-surfactant-containing solvent is very easy and inexpensive to use with closed-loop water recycling. All flash points over 140°F. Very high solvency for hydrocarbon soils.

Biodegradable, non-caustic, neutral pH cleaner which is used in a closed loop parts washing system. Several different formulations developed to suit a variety of cleaning needs. Customized parts washing equipment is matched to the cleaning chemicals to ensure optimum performance.

Fine Organics Corp.
205 Main St.
PO Box 687
Lodi, NJ 07644-0687
Tel: (201) 472-6800
(800) 526-7480
Fax: (201) 472-6810

Glidco Organics
P.O. Box 389
Jacksonville, FL. 32201
Tel: (800) 231-6728
(904) 768-5800
Fax: (904) 768-2200

Inland Technology, Inc.
2612 Pacific Highway East
Tacoma, WA 98424
Tel: (206) 922-8932
(800) 552-3100
Fax: (206) 926-0577

MacDermid, Inc.
245 Freight St.
Waterbury, CT 06702
Tel: (203) 575-5700
Fax: (203) 575-5630

Micro Care Corp.
34 Ronzo Road
Bristol, CT 06010
Tel: (203) 585-7912
Fax: (203) 585-7378

Navy Brand Mfg Co.
Division of Chemstar, Inc.
5111 Southwest Avenue
St. Louis, MO 63110-3496
Tel: (800) 325-3312
(314) 865-5500
Fax: (314) 865-5509

Non-hazardous and biodegradable solvent and solvent-emulsion based alternatives. Products are applicable to the transportation, aviation, electronics, and coatings industries. Also offer water-based alternative products.

State-of-the-art terpene-based cleaning agents for cold cleaning, hand-wipe cleaning, semi-aqueous cleaning, maintenance cleaning, and solvent-solvent cleaning. Glidsafe® cleaning agents employ unique terpene systems for optimal performance.

Range of aqueous cleaners used in hand-wipe cleaning. Also other non ozone-depleting biodegradable solvents for various cleaning applications, including vapor degreasing, precision cleaning, paint stripping, and resin removal.

Full range of aqueous-based formulations and terpene-based formulations for the metalworking, aerospace, automotive, electronic, military, and printing industries. Designed to meet military specifications. Products leave no residue following proper cleaning and rinsing. Formulations available with and without glycol ethers.

Solvent cleaners based on but not limited to terpene hydrocarbon, alcohol, or HCFC technologies. Formulations are engineered for use in non-automated hand cleaning applications where rinsing is not available. Cleaners are effective in touch-up cleaning and precision cleaning of all types of flux residues, oils, grease and grime.

Industrial degreasers for metal cleaning and parts cleaning. Formulations are based on non-ozone depleting solvents. Also solvent-based, aqueous-based and also semi-aqueous-based products for a variety of cleaning applications on a host of substrates, both metallic and non-metallic.

Oakite Products, Inc.
50 Valley Road
Berkeley Heights, NJ 07922
Tel: (908) 508-2107
Fax: (908) 464-9250

High-tech, state-of-the-art, recyclable cleaning products for use in immersion, ultrasonic, hand wipe, and other cleaning applications. Many aqueous and semi-aqueous formulations adhere to the Clean Air Act, OSHA regulations, and do not contain SARA 313 ingredients. Comprehensive lines of products that exhibit biodegradability, oil splitting or emulsifying features. Terpene-based cleaners have no flash point, and alkaline, aqueous formulations include non-phosphated, non-chelated, mildly alkaline cleaners.

Petroferm Inc.
5415 First Coast Highway
Fernandina Beach, FL 32034
Tel: (904) 261-8286
Fax: (904) 261-6994

Broad line of formulations based on terpenes, ester, and aliphatic hydrocarbons and blends of these organic solvents with surfactants. Products are used for cold (hand) cleaning and in combination with various cleaning equipment. Products can be removed by evaporation, water, alcohols or nonflammable fluorinated solvents. Both products and rinse media can be recycled.

Rite Off, Inc.
Seaford Industrial Park
P.O. Box 1070
Seaford, DE 19973
Tel: (800) 645-5853
(302) 628-2100
Fax: (800) 571-2211

Wide variety of cleaning and maintenance formulations using alcohols, terpenes, HFCs, hydrocarbons and chlorinated solvents. Specialists in aerosol technology, liquid formulations also available.

Rochester Midland Corp.
333 Hollenbeck St.
Rochester, NY 14621
Tel: (716) 336-2200
Fax: (716) 467-4406

Formulations comprised of hydrocarbon and/or terpene solvents. Some also contain surfactants. Many contain alkaline builders and chelants as well as glycol ethers. Some aqueous-based or water-compatible formulations exhibit good biodegradability. Many products allow for good oil/grease separation upon standing.

Selig Chemical Industries
PO Box 43106
840 Selig Dr. SW
Atlanta, GA 30378
Tel: (404) 691-9220
Fax: (404) 699-7024

Formulations made of hydrocarbons and blends of hydrocarbons and emulsifiers. Also offer aqueous-based formulations containing detergents with and without glycol ethers and some containing d-limonene.

Storchem Inc.
3600 Billings Court, Suite 110
Burlington, Ontario
Canada L7N 3N6
Tel: (416) 639-9700
Fax: (416) 639-5244

Terpene Technologies Inc.
3400 Ridge Rd. W, Suite 293
Rochester, NY 14626
Tel: (716) 546-8455
(716) 777-0790
Fax: (716) 227-3834

Ultrasound Fabrications, Inc.
1 Maple St.
Shelton, CT 06484
Tel: (203) 924-1624
Fax: (203) 924-1625

Union Camp Corp.
Bush Boake Allen Division
PO Box 37617
Jacksonville, FL 32236
Tel: (904) 783-2180
(800) 874-9220
Fax: (904) 786-6495

U.S. Polychemical Corp.
Route 45 Chestnut Ridge Road
Chestnut Ridge, NY 10977
Tel: (914) 356-5530
(800) 431-2072
Fax: (914) 356-6656

Working Solutions, Inc.
938 Cortlandt Street
Houston, TX 77008
Tel: (800) 829-4419
Fax: (713) 862-5591

Aqueous-based terpene formulations containing detergents and emulsifiers; semi-aqueous cleaners and degreasers based on terpene alcohols and hydrocarbons; terpene alcohol and hydrocarbon blends used as non-water soluble solvents.

Terpene alcohol and hydrocarbon blends used as non-water soluble solvents, semi-aqueous cleaners and degreasers based on terpene alcohols and hydrocarbons. Also offer aqueous-based terpene formulations containing detergents and emulsifiers.

Ultrasonic parts washing systems with standard tank volumes of 5, 10, 20, and 30 gallons, as well as special sizes if required. Systems provide for ultrasonic washing, spray or different types of immersion rinsing and hot air drying to achieve clean, dry, spot free parts.

Range of wood terpene-based alternative solvents for semi-aqueous and solvent only cleaning processes and maintenance cleaning applications. High solvency and high soil loading properties for removal of solder fluxes, heavy oils and greases, polishing compounds, carbonaceous deposits etc. to the highest cleanliness standards.

Manufacturers of oil and grease buffing compounds, flux removing chemistries with non-chlorinated solvents, semi-aqueous, and aqueous technologies. Also automated cleaning systems with recirculating agitation or ultrasonics for turn-key applications.

Aqueous, semi-aqueous and solvent cleaning technologies and equipment.

Zip-Chem Products
1860 Dobbin Dr.
San Jose, CA 95133
Tel: (408) 729-0291
(800) 648-2661
Fax: (408) 272-8062

Alcohol-Based

Aervoe-Pacific Co., Inc.
1198 Sawmill Road
Gardnerville, NV 89410
Tel: (702) 782-0100
Fax: (702) 782-4027

Ambassador Marketing
Route 1-Box 207
St. David, AZ 85630
Tel: (602) 720-4310
Fax: (602) 720-4068

ARCO Chemical Co.
3801 West Chester Pike
Newtown Square, PA 19073-2387
Tel: (215) 359-2441
Fax: (215) 359-5753

Chemtronics, Inc.
8125 Cobb Center Dr.
Kennesaw, GA 30144
Tel: (404) 424-4888
Fax: (404) 424-4267

Cobehn, Inc.
640 Airport Road
Winchester, VA 22602
Tel: (703) 665-0707
Fax: (703) 665-0768

Coleman Chemical, Inc.
One Gemstar Lane
Joliet, IL 60435
Tel: (815) 727-3900
Fax: (815) 727-3998

Aqueous, semi-aqueous aliphatic hydrocarbon, terpene and alcohol-based cleaners. Application oriented packaging like wipes, aerosols, specialty containers, and other delivery systems available.

Hydrocarbon, alcohol and HFC-based cleaners, defluxers, lubricants, dust off and circuit freezing formulations designed for electronics. All products sold contain zero ozone depleting substances.

Aqueous and alcohol-based cleaners for low residue degreasing and dewaxing applications. Formulations are nonflammable and nonfuming.

Ultra-pure cleaners for electronics and metals.

Manufacturer of a non-solvent-based precision batch cleaning system, utilizing solvent materials filtered to .2um ppm. Process removes flux, oils and particulates by agitation, wetting and drying in an inert atmosphere. Also used for hybrids, and PCBs.

Specialty formulations of non-ozone depleting HFCs available in 1995.

Conceptronic, Inc.
6 Post Rd.
Portsmouth, NH 03801
Tel: (603) 431-6262
Fax: (603) 431-3303

Dell-Chem of Arizona
7119 E. Shea Blvd., Suite 106-224
Scottsdale, AZ 85254
Tel: (602) 951-5812
Fax: (602) 948-4172

Insitu Environmental Chemical Co.
8402 East Redwing Rd.
Scottsdale, AZ 85250-5740
Tel: (602) 948-9209
Fax: (602) 951-0715

JnJ Industries
195 E. Main St.
Suite 303
Milford, MA 01757
Tel: (800) 554-9994
Fax: (508) 478-2221

Ken Seika Corp.
314 Willow Dr.
Little Silver, NJ 07739
Tel: (908) 741-4920
Fax: (908) 758-9531

Kester Solder Division Litton Industries
515 E. Touhy Avenue
Des Plaines, IL 60018-2675
Tel: (708) 297-1600
Fax: (708) 390-9338

Semi-aqueous, spray-based, totally closed-loop modular batch cleaning systems utilizing non-flammable, naturally derived alcohol solvents in solution with water. Also have an ultrasonic batch cleaning system for metallic and non-metallic electronic surfaces and other difficult-to-clean non-electronic parts of unusual geometric shape.

Aqueous and alcohol-based cleaners for low residue degreasing and dewaxing applications. Formulations are nonflammable and nonfuming.

Aqueous and alcohol-based cleaners for low residue degreasing and dewaxing applications. Formulations are nonflammable and nonfuming.

Manufacturer of eight non-CFC formulations including a supersaturated wipe solvent.

Organic intermediates, specialty monomers-polymers, oligomers, etc. MMB for metal cleaning applications.

Alcohol-based cleaners, solvent blends, and aqueous saponifiers. Also manufacture no-clean, water-clean, and VOC-free; fluxes, solders, and solder pastes.

Kyzen Corp.
413 Harding Industrial Dr.
Nashville, TN 37211
Tel: (615) 831-0888
(800) 845-5524
Fax: (615) 831-0889

Micro Care Corp.
34 Ronzo Road
Bristol, CT 06010
Tel: (203) 585-7912
Fax: (203) 585-7378

Navy Brand Mfg Co.
Division of Chemstar, Inc.
5111 Southwest Avenue
St. Louis, MO 63110-3496
Tel: (800) 325-3312
(314) 865-5500
Fax: (314) 865-5509

Oakite Products, Inc.
50 Valley Road
Berkeley Heights, NJ 07922
Tel: (908) 508-2107
Fax: (908) 464-9250

A broad line of non-hazardous, zero ODP, biodegradable, and low VOC cleaning products. Kyzen products are used for cold cleaning, immersion solvent cleaning, and aqueous spray cleaning. These materials are compatible with a wide range of cleaning machines: spray in air, spray in immersion, soak, and ultrasonic. Kyzen products can be used in closed looped systems for low/zero discharge by a variety of commonly available water reuse systems.

Solvent cleaners based on but not limited to terpene hydrocarbon, alcohol, or HCFC technologies. Formulations are engineered for use in non-automated hand cleaning applications where rinsing is not available. Cleaners are effective in touch-up cleaning and precision cleaning of all types of flux residues, oils, grease and grime.

Industrial degreasers for metal cleaning and parts cleaning. Formulations are based on non-ozone depleting solvents. Also solvent-based, aqueous-based and also semi-aqueous-based products for a variety of cleaning applications on a host of substrates, both metallic and non-metallic.

High-tech, state-of-the-art, recyclable cleaning products for use in immersion, ultrasonic, hand wipe, and other cleaning applications. Many aqueous and semi-aqueous formulations adhere to the Clean Air Act, OSHA regulations, and do not contain SARA 313 ingredients. Comprehensive lines of products that exhibit biodegradability, oil splitting or emulsifying features. Terpene-based cleaners have no flash point, and alkaline, aqueous formulations include non-phosphated, non-chelated, mildly alkaline cleaners.

QO Chemicals, Inc.
P.O. Box 2500
One Great Lakes Blvd
West Lafayette, IN 47906
Tel: (800) 621-9521
Fax: (317) 497-6287

The Rission Group Inc.
13349 Michigan Ave.
Dearborn, MI 48126
Tel: (313) 581-2620
Fax: (313) 581-3758

Rite Off, Inc.
Seaford Industrial Park
P.O. Box 1070
Seaford, DE 19973
Tel: (800) 645-5853
(302) 628-2100
Fax: (800) 571-2211

Selig Chemical Industries
PO Box 43106
840 Selig Dr. SW
Atlanta, GA 30378
Tel: (404) 691-9220
Fax: (404) 699-7024

Ultrasound Fabrications, Inc.
1 Maple St.
Shelton, CT 06484
Tel: (203) 924-1624
Fax: (203) 924-1625

U.S. Polychemical Corp.
Route 45 Chestnut Ridge Road
Chestnut Ridge, NY 10977
Tel: (914) 356-5530
(800) 431-2072
Fax: (914) 356-6656

Specialty solvents used in various cleaning applications. Solvents are bio-degradable, water miscible, and not photo-chemically reactive.

Aqueous and non-aqueous formulations containing surfactants with and without glycol ethers. Hydrocarbons and blends of hydrocarbons with emulsifiers also available.

Wide variety of cleaning and maintenance formulations using alcohols, terpenes, HFCs, hydrocarbons and chlorinated solvents. Specialists in aerosol technology, liquid formulations also available.

Formulations made of hydrocarbons and blends of hydrocarbons and emulsifiers. Also offer aqueous-based formulations containing detergents with and without glycol ethers and some containing d-limonene.

Ultrasonic parts washing systems with standard tank volumes of 5, 10, 20, and 30 gallons, as well as special sizes if required. Systems provide for ultrasonic washing, spray or different types of immersion rinsing and hot air drying to achieve clean, dry, spot free parts.

Manufacturers of oil and grease buffing compounds, flux removing chemistries with non-chlorinated solvents, semi-aqueous, and aqueous technologies. Also automated cleaning systems with recirculating agitation or ultrasonics for turn-key applications.

Zip-Chem Products
1860 Dobbin Dr.
San Jose, CA 95133
Tel: (408) 729-0291
(800) 648-2661
Fax: (408) 272-8062

Aqueous, semi-aqueous aliphatic hydrocarbon, terpene and alcohol-based cleaners. Application oriented packaging like wipes, aerosols, specialty containers, and other delivery systems available.

SEMI-AQUEOUS CLEANING EQUIPMENT

ACCEL
1825 E. Piano Parkway
Piano, TX 75074-8129
Tel: (214) 424-3525
Fax: (214) 424-7526

System utilizing centrifugal cleaning to provide superior washing, effective rinsing, and drying of populated printed circuit boards and hybrid circuits. Includes automatic solvent recycling and rinse water purification with no required drain. Compatible with chlorocarbons, fluorocarbons, H₂O, and terpenes.

Altos Engineering, Inc.
6009 N. 61 Ave
Glendale, AZ 85301
Tel: (602) 931-8434
Fax: (602) 937-6396

Batch and inline cleaning equipment with non-chemical, thermal vacuum drying of rinse waters. Detergent formulations available with and without glycol ethers.

American Metal Wash, Inc.
PO Box 265
360 Euclid Ave.
Cannonsburg, PA 15317
Tel: (412) 746-4203
Fax: (412) 746-5738

Bearing washer for precision cleaning of final assembled race bearings, including points of contact. Equipment can be provided in single or multi-stages for accommodations of washing, rinsing, rust inhibiting, and thorough drying of each bearing. Can accommodate bearing diameters of 7/8" to 20" and can be setup for use with aqueous or semi-aqueous cleaning solutions.

Babcock & Wilcox CIM Systems
4004 Murray Place
Lynchburg, VA 24501
Tel: (804) 948-1361
Fax: (804) 948-1313

Provide turnkey automated cleaning and inspection (SQC/SPC) systems for complete integration into process cleaning lines, including aqueous and non-aqueous systems, material handling, drying, cleanliness and geometric inspection, and computer protocol communication. Full-scope of services from process selection, development, installation, training, and continued follow-up support.

Baron-Blakeslee, Inc.
1500 West 16th St.
Long Beach, CA 90813
Tel: (800) 548-4422
Fax: (310) 491-1091

Blackstone Ultrasonics, Inc.
9 North Main St.
Jamestown, NY 14701
Tel: (716) 665-2340
(800) 766-6606
Fax: (716) 665-2480

Blue Wave Ultrasonics
Div. of Alpheus Cleaning Technologies Corp.
960 S. Rolff St.
Davenport, IA 52802
Tel: (319) 322-0144
(800) 373-0144
Fax: (319) 322-7180

Branson Ultrasonics Inc.
41 Eagle Rd.
Danbury, CT 06810
Tel: (203) 796-0400
Fax: (203) 796-0381

CD Nelson Manufacturing Company
28979 North Herkey Drive
Lake Bluff, IL 60044
Tel: (708) 362-3555
Fax: (708) 362-0154

Cincinnati Industrial Machinery
PO Box 62027
3280 Hageman St.
Cincinnati, OH 45241 (street add.)
45262 (PO Box)
Tel: (513) 769-0700
Fax: (513) 769-0697

Full line of cleaning equipment for use with aqueous, semi-aqueous, HCFC, and chlorinated solvents. Closed loop system incorporating vacuum drying available (near zero emissions).

Complete range of ultrasonic cleaning products from stand-alone and bench-top heated tanks to wash/multiple rinse/dry console systems with optional material handling and automation. Also, fluxless ultrasonic solder pots for tinning leads and electronics.

Ultrasonic cleaning equipment built for various applications specific to the customer's needs. Effective in cleaning different products and materials throughout the scope of fabricated metals, plastics, and ceramics. Also offer aqueous-based detergents that are environmentally safe.

Ultrasonic cleaning equipment and integrated cleaning systems for metal, electronic, and precision cleaning requirements. Manual and fully automated material handling/transport systems. Equipment for aqueous, semi-aqueous and solvent chemistry.

Steam cleaning equipment for removing polishing paste, oils, pollutants, and other contaminants from metals, plastics, ceramics, silicone wafers. Removal of small burrs, rouges, casting materials, waxes from precious metals, ferrous and non-ferrous metals, ceramics, plastics. Ultrasonic cleaning of all above materials.

Custom designed machines for cleaning, surface preparation and other processing of metal and non-metallic parts.

Conax Buffalo Corporation
2300 Walden Avenue
Buffalo, NY 14225
Tel: (716) 684-4500
(800) 223-2389
Fax: (716) 684-7433

Conceptronic, Inc.
6 Post Rd.
Portsmouth, NH 03801
Tel: (603) 431-6262
Fax: (603) 431-3303

Container Products Corp.
PO Box 3767
Wilmington, NC 28406
Tel: (919) 392-6100
Fax: (919) 392-6778

Creative Enterprizes
105 Anyway, Suite 209
Lake Jackson, TX 77566
Tel: (409) 292-0244
Fax: (409) 292-0440

Crest Ultrasonics
Scotch Rd. - Mercer County Airport
PO Box 7266
Trenton, NJ 08628
Tel: (609) 883-4000
(800) 441-9675
Fax: (609) 883-6452

Durr Industries, Inc.
10301 Enterprise Dr.
Davisburg, MI 48360
Tel: (313) 625-5400
Fax: (313) 625-5966

Ultrasonic cleaning equipment and systems for cleaning machine components, fabricated parts, assemblies. Related support devices available.

Semi-aqueous, spray-based, totally closed-loop modular batch cleaning systems utilizing non-flammable, naturally derived alcohol solvents in solution with water. Also have an ultrasonic batch cleaning system for metallic and non-metallic electronic surfaces and other difficult-to-clean non-electronic parts of unusual geometric shape.

Systems incorporating a variety of aqueous cleaning techniques which include filtered negative pressure chambers, high pressure chambers, and mobile cleaning systems.

Specialize in low cost conversion of existing facilities to safely use alternative cleaning agents. Design new or custom cleaning equipment and processes. Also design environmentally secure drying equipment and processes.

Precision cleaning equipment (primarily ultrasonic systems) from standard wash-rinse-dry cleaning consoles to large custom automated batch cleaning equipment. Ultrasonic generator is sweep frequency generator capable of cavitating both aqueous and semi-aqueous chemistries. Full line of aqueous-based cleaning chemistries for ultrasonic applications as well.

All aqueous and semi-aqueous systems recycle and reuse process water. Solvent systems reduce emissions by 99% over conventional degreasing systems.

Ecolink
1481 Rock Mountain Blvd.
Stone Mountain, GA 30083
Tel: (404) 621-8240
(800) 886-8240
Fax: (404) 621-8245

Electronic Controls Design, Inc.
4287-A SE International Way
Milwaukie, OR 97006
Tel: (503) 659-6100
(800) 323-4548
Fax: (503) 659-4422

Envirosolutions Inc.
335 Post Road West
Westport, CT 06880
Tel: (203) 454-5902
Fax: (203) 222-0190

Finishing Equipment Inc.
3640 Kennebec Dr.
St. Paul, MN 55122
Tel: (612) 452-1860
Fax: (612) 452-9851

Forward Technology Industries, Inc.
13500 County Road 6
Minneapolis, MN 55446-2777
Tel: (612) 559-1785
Fax: (612) 559-3929

Hurri-Kleen Corp.
PO Box 29
Trussville, AL 35173
Tel: (205) 655-8808
Fax: (205) 655-5392

Wide range of aqueous, semi-aqueous and non-aqueous chemistries. Formulations include a variety of hydrocarbon, NMP, DBE and terpene products as well as non-ozone depleting halogenated solvents. Manufacture a complete line of batch cleaning units for use with these solvents.

Biodegradable, non-caustic, neutral Ph cleaner which is used in a closed loop parts washing system. Several different formulations developed to suit a variety of cleaning needs. Customized parts washing equipment is matched to the cleaning chemicals to ensure optimum performance.

Aqueous, semi-aqueous and solvent cleaning systems available. From manual systems to automated high-production cleaning lines, with ultrasonics available as needed. Specialize in automated enclosed vapor degreasers for efficient use of the non-ozone depleting chlorinated solvents.

Standard and custom aqueous, systems featuring batch and part-by-part high speed automation, ultrasonics, high pressure sprays, hot air drying, IPA drying, vacuum dryers, and environmentally controlled enclosures. Also, semi-aqueous and solvent formulations available.

Kleer-Flo Company
15151 Technology Dr.
Eden Prairie, MN 55344
Tel: (612) 934-2555
(800) 328-7942
Fax: (612) 934-3909

KLN Ultraschall GmbH
Siegfriedstrasse 124
D-64646 Heppenheim
GERMANY
Tel: +49-6252-14-0
Fax: +49-6252-14-277

Ney Ultrasonics
1280 Blue Hills Avenue
Bloomfield, CT 06002
Tel: (203) 286-6149
Fax: (203) 286-6150

Ransohoff Co.
North 5th St at Ford Boulevard
Hamilton, OH 45011
Tel: (513) 863-5813
(800) 248-WASH
Fax: (513) 863-8908

Rapid Engineering, Inc.
P.O. Box 700
1100 Seven Mile Road N.W.
Comstock Park, MI 49321-0700
Tel: (616) 784-0500
Fax: (616) 784-0435

S&K Products International
80 Red Schoolhouse Rd. #102
Chestnut Ridge, NY 10977
Tel: (914) 425-6200
Fax: (914) 425-7602

Standard and custom semi-aqueous systems featuring various types of batch automation, ultrasonics, high pressure sprays, hot air drying, IPA drying, vacuum dryers, environmentally controlled enclosures. Also, aqueous and solvent formulations available.

Equipment for batch/manual and batch/automated cleaning using aqueous, water-miscible, semi-aqueous, and solvent chemistries. Complete application development laboratory to assist users.

Standard and custom aqueous and semi-aqueous cleaning equipment for small through high production parts cleaning requirements, as well as very small to large part configurations and various part materials. Expertise in precision cleaning. Patented, mechanically agitated aqueous technology for high volume intricately shaped or machined parts as a direct replacement of solvent vapor degreasing and ultrasonic cleaning systems.

Parts washers utilizing low to medium pressure spraying of aqueous solutions on metal and plastic substrates. Exhaust incinerators for lowering VOC discharge to the atmosphere.

Solvent wash followed by one or more aqueous rinses, including formulated surfactants; then to spot free, stain free, particulate free drying via isopropyl alcohol.

Smart Sonic Precision Cleaning Systems
2373 Teller Rd., #107
Newbury Park, CA 91320
Tel: (805) 499-7440
Fax: (805) 375-5781

SONICOR Instrument Corp.
100 Wartburg Ave.
Copiague, NY 11726
Tel: (516) 842-3344
Fax: (516) 842-3389

Sonitech Inc.
239 East Stephenson St.
Freeport, IL 61032
Tel: (815) 235-2400
Fax: (815) 232-2150

Tiyoda Mfg. U.S.A., Inc.
1613 Lockness Place
Torrance, CA 90501
Tel: (310) 539-5471
Fax: (310) 539-5881

Ultrasound Fabrications, Inc.
1 Maple St.
Shelton, CT 06484
Tel: (203) 924-1624
Fax: (203) 924-1625

Automated ultrasonic and spray batch cleaners for precision cleaning of metal, plastic, and ceramic parts. Systems clean oils, particulate and other contaminants. Optional waste evaporator.

Ultrasonic cleaning equipment, automated aqueous cleaning systems. Environmentally safe alternatives to cleaning with hazardous solvents.

Ultrasonic cleaning equipment using aqueous or semi-aqueous chemistries for a wide range of applications. Complete systems include cleaning tanks, rinse, tanks, dryers and closed loop rinse water recirculation systems. System uses alcohol or other solvents with perfluorinated chemistry for rinsing and drying non-water contact applications.

Vacuum desiring ultrasonic batch cleaning system provides instantaneous cleaning solution penetration into small tubes and holes and promotes superior cleaning. Vacuum drying system uses vacuum, hot air, ultra-pure steam heating and far-infrared heater.

Ultrasonic parts washing systems with standard tank volumes of 5, 10, 20, and 30 gallons, as well as special sizes if required. Systems provide for ultrasonic washing, spray or different types of immersion rinsing and hot air drying to achieve clean, dry, spot free parts.

Unitech Industrial Inc.
PO Box 330
16 South Ave,
Wappingers Falls, NY 12590
Tel: (914) 297-0745
(800) 277-5522
Fax: (914) 297-2919

U.S. Polychemical Corp.
Route 45 Chestnut Ridge Road
Chestnut Ridge, NY 10977
Tel: (914) 356-5530
(800) 431-2072
Fax: (914) 356-6656

Vitronics Corp.
Forbes Rd.
Newmarket Industrial Park
Newmarket, NH 03857
Tel: (603) 659-6550
Fax: (603) 659-7194

HYDROCARBON-BASED SOLVENTS

Advanced Research Technologies
312 South Vine St.
Park Ridge, IL 60068
Tel: (708) 696-9371
Fax: (708) 696-4984

Aerocote Corporation
P.O. Box 15849
Houston, TX 77220
Tel: (713) 224-6185
Fax: (713) 223-5229

ARCO Chemical Co.
3801 West Chester Pike
Newtown Square, PA 19073-2387
Tel: (215) 359-2441
Fax: (215) 359-5753

Ardrox Inc.
16961 Knott Avenue
La Mirada, CA 90638
Tel: (714) 739-2821
Fax: (714) 670-6480

Closed loop industrial cleaning systems.
Spray washers, batch cleaning systems, vapor degreasing, and pretreatment systems available in new equipment and retrofits.
Waste water treatment and recycling, 100% oil removal from the cleaning process.

Manufacturers of oil and grease buffing compounds, flux removing chemistries with non-chlorinated solvents, semi-aqueous, and aqueous technologies. Also automated cleaning systems with recirculating agitation or ultrasonics for turn-key applications.

Inline aqueous and semi-aqueous cleaning equipment with closed loop water treatment systems.

Ultra-low residue, high purity terpene hydrocarbon cleaning agents. Used in vapor degreasing applications for metals cleaning, electronics cleaning, and precision cleaning.

Aqueous, semi-aqueous cleaners and hydrocarbon solvents. Applications using agitation including spray wash cabinets. Also, spray in steam cleaning, pressure washing, soak immersion, ultrasonic, and hand wiping applications.

Full range of aqueous-based formulations as well as aliphatic hydrocarbon-based blends, terpene-based formulations, hydrocarbon-based solvent blends and other cleaning alternatives and equipment.

A.W. Chesterton
225 Fallon Road
Middlesex Industrial Park
Stoneham, MA 02180-2999
Tel: (617) 438-7000
Fax: (617) 438-8971

BASF Corp.
100 Cherry Hill Rd.
Parsippany, NJ 07054

Break-Free, Inc.
1035 S. Linwood Avenue
Santa Ana, CA 92705-4396
Tel: (714) 953-1900
Fax: (714) 953-0402

The Brulin Corporation
PO Box 270
2920 Dr. Andrew J. Brown Ave.
Indianapolis, IN 46206
Tel: (317) 923-3211
Fax: (317) 925-4596

Carroll Company
2900 W. Kingsley Road
Garland, TX 75041
Tel: (800) 527-5722
Fax: (214) 840-0678

Chemical Marketing Corporation of America
180 Humboldt Avenue North
Minneapolis, MN 55405
Tel: (612) 377-1971
Fax: (612) 377-5597

A complete line of aqueous cleaners containing detergents, with and without glycol ethers. Hydrocarbon solvents and solvent blends. Non-ozone depleting chlorinated solvents. Provide free assistance to customers wishing to replace ozone-depleting chemicals. Synthetic machining fluids, lubricants and maintenance specialties.

Unique blend of orange oils and highly refined synthetic hydrocarbons formulated as a safe replacement for most chlorinated or halogenated, ozone-depleting solvents. Applications include degreasing, removal of oils, wax, tar, adhesives, fresh paint and oil-based inks. Also water-based, alkaline cleaners for the removal of heavy soil contaminants.

Advanced technology aqueous detergent systems for spray, immersion, ultrasonic, and passive process cleaning of fabricated metal or plastic parts.

Aqueous cleaning formulations containing detergents with and without glycol ethers. Formulations made from hydrocarbons and terpenes with and without emulsifiers. Specialty solvent blends for printing ink cleanup, electric motor degreasing, cleaning printed circuit boards, and assorted textile mill applications.

Common solvents including aliphatics, aromatics, alcohols, chlorinateds, and ketones.

Chemical Solvents, Inc.
3751 Jennings Rd.
Cleveland, OH 44109
Tel: (216) 741-9310
(800) 362-0693
Fax: (216) 741-4080

Chemical Technologies, Inc.
1610 Clara Street
Jackson, MI 49203
Tel: (800) 688-8262
Fax: (517) 782-2448

Chem-Tech International
1800 Diagonal Rd., Suite 600
Alexandria, VA 22314
Tel: (703) 549-1001
Fax: (703) 549-1003

Chemtronics, Inc.
8125 Cobb Center Dr.
Kennesaw, GA 30144
Tel: (404) 424-4888
Fax: (404) 424-4267

Cobehn, Inc.
640 Airport Road
Winchester, VA 22602
Tel: (703) 665-0707
Fax: (703) 665-0768

Coleman Chemical, Inc.
One Gemstar Lane
Joliet, IL 60435
Tel: (815) 727-3900
Fax: (815) 727-3998

CRC Industries, Inc.
885 Louis Dr.
Warminster, PA 18974
Tel: (215) 674-4300
Fax: (215) 674-2196

Aliphatic hydrocarbon blends, terpenes, surfactants, biodegradable emulsifiers, non-ozone depleting halogenated solvents, HCFCs. Specialty formulations for metal, urethane fiberglass (resin) clean-up processes via spray, wipe and immersion systems. Turn-key parts cleaning services. Recycling, disposal of generated waste solvents and waters.

Odor-free synthetic carbon blends to replace ozone-depleting halogenated solvents. Also aqueous and semi-aqueous degreasers and aqueous cleaners providing corrosion protection.

Aqueous-based formulations containing detergents with and without glycol ethers as well as blends of hydrocarbons and emulsifiers which, when used in combination, provide residue-free cleaning. Can be used on all metals, teflon, plastic, and painted coatings. Also specially designed cleaning equipment.

Ultra-pure cleaners for electronics and metals.

Manufacturer of a non-solvent-based precision batch cleaning system, utilizing solvent materials filtered to .2um ppm. Process removes flux, oils and particulates by agitation, wetting and drying in an inert atmosphere. Also used for hybrids, and PCBs.

Specialty formulations of non-ozone depleting HFCs available in 1995.

Mixtures of hydrocarbon solvents with and without glycol ethers. Package types include aerosols and bulk.

Creative Enterprizes
105 Anyway, Suite 209
Lake Jackson, TX 77566
Tel: (409) 292-0244
Fax: (409) 292-0440

Detrex Corp.
4000 Town Center, Suite 1100
Southfield, MI 48175
Tel: (313) 358-5800
Fax: (313) 358-5803

Ecolink
1481 Rock Mountain Blvd.
Stone Mountain, GA 30083
Tel: (404) 621-8240
(800) 886-8240
Fax: (404) 621-8245

Electrolube Corporation USA
8200 Saint James Ave.
Elmhurst, NY 11373
Tel: (718) 565-5200
Fax: (718) 565-5715

Environmental Recovery Resources, Inc.
PO Box 36
South Salem, NY 10590
Tel: (914) 533-6175
Fax: (914) 533-6275

Enviro Tech International
2201 Clement Ave. #43
Alameda, CA 94501-1487
Tel: (510) 436-7603
Fax: (510) 436-7345

Specialize in low cost conversion of existing facilities to safely use alternative cleaning agents. Design new or custom cleaning equipment and processes. Also design environmentally secure drying equipment and processes.

Aqueous micro-emulsion solution for gross metal cleaning and equipment for use with the cleaning solution. Alternative/vapor degreasing process, specialty equipment and solvents for metals and electronics cleaning, chlorinated and HCFC solvents, and aqueous and semi-aqueous solvents.

Wide range of aqueous, semi-aqueous and non-aqueous chemistries. Formulations include a variety of hydrocarbon, NMP, DBE and terpene products as well as non-ozone depleting halogenated solvents. Manufacture a complete line of batch cleaning units for use with these solvents.

Non-toxic, non-flammable, biodegradable aqueous solvents suitable for in-line and batch equipment without modification. Also ideal for screen and pallet cleaning and precision metal degreasing (ferrous and non-ferrous).

Floating, dispersed, and dissolved hydrocarbon contaminants removed to surface water discharge limits, using: no coalescing plates, no centrifugal, no carbon absorption, no sorbent waste. Also offer systems and services to extend cleaning bath 'life' for more cost effective aqueous systems and waste water processing, and waste-minimized settling-pond and separator maintenance/remediation.

Non-flammable, drop-in replacement solvent for vapor degreasing of metals, electronics, and precision components. Leaves no residue. Requires no additional cleaning. For use in existing vapor degreasers. Also, cold or wipe cleaning applications of metals, high voltage circuits, oxygen system cleaning, and spot cleaning of electronics.

ETUS, Inc.
1511 Kastner Place
Sanford, FL 32771
Tel: (407) 321-7910
Fax: (407) 321-3098

EXXON Chemical Co.
PO Box 3272
Houston, TX 77253-3272
Tel: (800) 526-0749
Fax: (713) 870-6661

Fine Organics Corp.
205 Main St.
PO Box 687
Lodi, NJ 07644-0687
Tel: (201) 472-6800
(800) 526-7480
Fax: (201) 472-6810

Firefreeze Worldwide, Inc.
270 Route 46 East
Rockaway, NJ 07866
Tel: (973) 627-0722
Fax: (973) 627-2982

Inland Technology, Inc.
2612 Pacific Highway East
Tacoma, WA 98424
Tel: (206) 922-8932
(800) 552-3100
Fax: (206) 926-0577

International Specialty Products
1361 Alps Rd.
Wayne, NJ 07470
Tel: (201) 628-3000
Fax: (201) 628-4117

Formulations made of hydrocarbons and blends of hydrocarbons and emulsifiers. Also offer aqueous-based formulations containing detergents with and without glycol ethers.

Cleaners comprised of narrow boiling range, high flash point aliphatic hydrocarbons. Low olefin and aromatic content. Low residue, low corrosivity to metals, low odor, low toxicity. Require no water handling, recyclable by distillation. Effective against a wide range of waxes, oils and greases found in metal and precision cleaning.

Non-hazardous and biodegradable solvent and solvent-emulsion based alternatives. Products are applicable to the transportation, aviation, electronics, and coatings industries. Also offer water-based alternative products.

Aqueous based degreasing, cleaning and odor eliminating formulations. Products are plant derived, environmentally friendly, non-corrosive, non-flammable, and fully biodegradable. Unique applications for waste water and sludge treatment and oil/grease separation and removal. Can be used in hand sprayers, water pressurized units, power washers, and other spray equipment.

Range of aqueous cleaners used in hand-wipe cleaning. Also other non ozone-depleting biodegradable solvents for various cleaning applications, including vapor degreasing, precision cleaning, paint stripping, and resin removal.

Specialty solvents comprised of N-methyl-2-pyrrolidone (NMP) and gamma-butyrolactone (BLO) as well as other proprietary ingredients. Products are biodegradable, water soluble, and recyclable.

JnJ Industries
195 E. Main St., Suite 303
Milford, MA 01757
Tel: (800) 554-9994
Fax: (508) 478-2221

Koch Specialty Chemicals
P.O. Box 2608
Corpus Christi, TX 78403
Tel: (512) 242-8350
Fax: (512) 242-8353

MacDermid Incorporated
245 Freight Street
Waterbury, CT 06702
Tel: (203) 575-5700
Fax: (203) 575-5630

Micro Care Corp.
34 Ronzo Road
Bristol, CT 06010
Tel: (203) 585-7912
Fax: (203) 585-7378

Navy Brand Mfg Co.
Division of Chemstar, Inc.
5111 Southwest Avenue
St. Louis, MO 63110-3496
Tel: (800) 325-3312
(314) 865-5500
Fax: (314) 865-5509

Manufacturer of eight non-CFC formulations including a supersaturated wipe solvent.

A variety of aromatic and aliphatic hydrocarbon solvents, with a range of flashpoints, solvency power, and HAP content.

Low residue, low toxicity formulations, used for hand wipe operations, cold immersion tanks or other areas where precision cleaning is required.

Solvent cleaners based on but not limited to terpene hydrocarbon, alcohol, or HCFC technologies. Formulations are engineered for use in non-automated hand cleaning applications where rinsing is not available. Cleaners are effective in touch-up cleaning and precision cleaning of all types of flux residues, oils, grease and grime.

Industrial degreasers for metal cleaning and parts cleaning. Formulations are based on non-ozone depleting solvents. Also solvent-based, aqueous-based and also semi-aqueous-based products for a variety of cleaning applications on a host of substrates, both metallic and non-metallic.

Oakite Products, Inc.
50 Valley Road
Berkeley Heights, NJ 07922
Tel: (908) 508-2107
Fax: (908) 464-9250

High-tech, state-of-the-art, recyclable cleaning products for use in immersion, ultrasonic, hand wipe, and other cleaning applications. Many aqueous and semi-aqueous formulations adhere to the Clean Air Act, OSHA regulations, and do not contain SARA 313 ingredients. Comprehensive lines of products that exhibit biodegradability, oil splitting or emulsifying features. Terpene-based cleaners have no flash point, and alkaline, aqueous formulations include non-phosphated, non-chelated, mildly alkaline cleaners.

Occidental Chemical Corp.
Technical Center
PO Box 344
Niagara Falls, NY 14302
Tel: (800) 733-1165
Fax: (716) 278-7297

Specially stabilized methylene chloride for a wide variety of applications. Formulations of halogenated toluenes and benzotrifluorides for cold cleaning of metals and electronics. Ethylene based glycol ethers for use in many cleaning formulations.

Orange Sol Industrial Products, Inc.
955 North Fiesta Blvd, Suite 1
Gilbert, AZ 85233-2801
Tel: (602) 497-8822
Fax: (602) 497-0444

Aqueous, semi-aqueous cleaners, hydrocarbon-based products and other cleaning alternatives and equipment (parts, washers). Effective cleaners for metal, electronic, precision and maintenance cleaning, suitable for agitation, soak, spray, ultrasonic and handwipe cleaning.

PDM Incorporated
3512-6 Silverside Road
Wilmington, DE 19810
Tel: (302) 478-0768
Fax: (302) 478-0299

Solvent formulations for cleaning/removing grease, adhesives, tar/asphalt, waxes, and also used in degreasers, hand wipe cleaners, carpet cleaners and general purpose cleaners.

Petroferm Inc.
5415 First Coast Highway
Fernandina Beach, FL 32034
Tel: (904) 261-8286
Fax: (904) 261-6994

Broad line of formulations based on terpenes, ester, and aliphatic hydrocarbons and blends of these organic solvents with surfactants. Products are used for cold (hand) cleaning and in combination with various cleaning equipment. Products can be removed by evaporation, water, alcohols or nonflammable fluorinated solvents. Both products and rinse media can be recycled.

P-T Technologies, Inc.
108 4th Ave. South
Safety Harbor, FL 34695
Tel: (800) 441-7874
Fax: (813) 725-9544

Purac America, Inc
111 Barclay Blvd
Suite 280
Lincolnshire, IL 60069
Tel: (708) 634-6330
Fax: (708) 634-1992

QO Chemicals, Inc.
P.O. Box 2500
One Great Lakes Blvd
West Lafayette, IN 47906
Tel: (800) 621-9521
Fax: (317) 497-6287

The Rission Group Inc.
13349 Michigan Ave.
Dearborn, MI 48126
Tel: (313) 581-2620
Fax: (313) 581-3758

Rite Off, Inc.
Seaford Industrial Park
P.O. Box 1070
Seaford, DE 19973
Tel: (800) 645-5853
(302) 628-2100
Fax: (800) 571-2211

Rochester Midland Corp.
333 Hollenbeck St.
Rochester, NY 14621
Tel: (716) 336-2200
Fax: (716) 467-4406

Non-halogenated hydrocarbon-based specialty cleaning and degreasing formulations for precision cleaning. Also offer vapor degreaser alternatives, ionic contaminant removers, acetone, MEK alternatives for specific industrial applications.

Range of lactate esters used as safe and environmental friendly cleaners. Applications include general degreasing, flux removal, polymer removal, metal finishing, wipe solvent, precision cleaning in various industries.

Specialty solvents used in various cleaning applications. Solvents are bio-degradable, water miscible, and not photo-chemically reactive.

Aqueous and non-aqueous formulations containing surfactants with and without glycol ethers. Hydrocarbons and blends of hydrocarbons with emulsifiers also available.

Wide variety of cleaning and maintenance formulations using alcohols, terpenes, HFCs, hydrocarbons and chlorinated solvents. Specialists in aerosol technology, liquid formulations also available.

Formulations comprised of hydrocarbon and/or terpene solvents. Some also contain surfactants. Many contain alkaline builders and chelants as well as glycol ethers. Some aqueous-based or water-compatible formulations exhibit good biodegradability. Many products allow for good oil/grease separation upon standing.

Roly International
P.O. Box 5103
Ventura, CA 93005
Tel: (805) 644-8664
Fax: (805) 650-8222

Selig Chemical Industries
PO Box 43106
840 Selig Dr. SW
Atlanta, GA 30378
Tel: (404) 691-9220
Fax: (404) 699-7024

Solvent Kleene, Inc.
131.5 Lynnfield Street
Peabody, MA 01960
Tel: (508) 531-2279
Fax: (508) 532-9304

Storchem Inc.
3600 Billings Court, Suite 110
Burlington, Ontario
Canada L7N 3N6

Terpene Technologies Inc.
3400 Ridge Rd. W, Suite 293
Rochester, NY 14626
Tel: (716) 546-8455
(716) 777-0790
Fax: (716) 227-3834

Thierica
900 Clancy Ave.
Grand Rapids, MI 49503
Tel: (616) 458-1538
Fax: (616) 458-7120

Cleaners for degreasing, cleaning and corrosion protection applications. Also other cleaners designed for avionics, computer applications, turbine blades used in jet engines, and glass cleaning.

Formulations made of hydrocarbons and blends of hydrocarbons and emulsifiers. Also offer aqueous-based formulations containing detergents with and without glycol ethers and some containing d-limonene.

Formulations, replacing chlorinated solvents, compatible with existing equipment, suitable with ferrous and non-ferrous metals, for oil removal, degreasing, removing flux, wax. Company offers on-site solvent-recovery closed-loop systems.

Aqueous-based terpene formulations containing detergents and emulsifiers; semi-aqueous cleaners and degreasers based on terpene alcohols and hydrocarbons; terpene alcohol and hydrocarbon blends used as non-water soluble solvents.

Terpene alcohol and hydrocarbon blends used as non-water soluble solvents, semi-aqueous cleaners and degreasers based on terpene alcohols and hydrocarbons. Also offer aqueous-based terpene formulations containing detergents and emulsifiers.

New low cost spray equipment manages extremely difficult cleaning jobs. Used with large and small parts containing baked grease and paint soils. Designed to be safe and environmentally secure with hydrocarbon and aqueous cleaning agents. Stainless steel construction.

Union Camp Corp.
Bush Boake Allen Division
PO Box 37617
Jacksonville, FL 32236
Tel: (904) 783-2180
(800) 874-9220
Fax: (904) 786-6495

Range of wood terpene-based alternative solvents for semi-aqueous and solvent only cleaning processes and maintenance cleaning applications. High solvency and high soil loading properties for removal of solder fluxes, heavy oils and greases, polishing compounds, carbonaceous deposits etc. to the highest cleanliness standards.

U.S. Polychemical Corp.
Route 45 Chestnut Ridge Road
Chestnut Ridge, NY 10977
Tel: (914) 356-5530
(800) 431-2072
Fax: (914) 356-6656

Manufacturers of oil and grease buffing compounds, flux removing chemistries with non-chlorinated solvents, semi-aqueous, and aqueous technologies. Also automated cleaning systems with recirculating agitation or ultrasonics for turn-key applications.

Working Solutions, Inc.
938 Cortlandt Street
Houston, TX 77008
Tel: (800) 829-4419
Fax: (713) 862-5591

Aqueous, semi-aqueous and solvent cleaning technologies and equipment.

W.R. Grace & Co.
Metalworking Fluids Group
55 Hayden Ave.
Lexington, MA 02173
Tel: (617) 861-6600
Fax: (617) 861-6600

Wide range of aqueous cleaning formulations for metal. precision, and maintenance cleaning. Includes formulations that are phosphate-free. Suitable for agitation, soak, spray, ultrasonic and hand wipe applications.

Zip-Chem Products
1860 Dobbin Dr.
San Jose, CA 95133
Tel: (408) 729-0291
(800) 648-2661
Fax: (408) 272-8062

Aqueous, semi-aqueous aliphatic hydrocarbon, terpene and alcohol-based cleaners. Application oriented packaging like wipes, aerosols, specialty containers, and other delivery systems available.

NON-OZONE DEPLETING CHLORINATED SOLVENTS

Asahi Glass America, Inc.
450 Lexington Ave., Suite 1920
New York, NY 10017-3911
Tel: (212) 687-4600
Fax: (212) 687-4663

Methylene chloride for general metals, electronics and precision cleaning.

A.W. Chesterton
225 Fallon Road
Middlesex Industrial Park
Stoneham, MA 02180-2999
Tel: (617) 438-7000
Fax: (617) 438-8971

Carroll Company
2900 W. Kingsley Road
Garland, TX 75041
Tel: (800) 527-5722
Fax: (214) 840-0678

Chemical Marketing Corporation of America
180 Humboldt Avenue North
Minneapolis, MN 55405
Tel: (612) 377-1971
Fax: (612) 377-5597

Chemical Solvents, Inc.
3751 Jennings Rd.
Cleveland, OH 44109
Tel: (216) 741-9310
(800) 362-0693
Fax: (216) 741-4080

Chemtronics, Inc.
8125 Cobb Center Dr.
Kennesaw, GA 30144
Tel: (404) 424-4888
Fax: (404) 424-4267

Cobehn, Inc.
640 Airport Road
Winchester, VA 22602
Tel: (703) 665-0707
Fax: (703) 665-0768

A complete line of aqueous cleaners containing detergents, with and without glycol ethers. Hydrocarbon solvents and solvent blends. Non-ozone depleting chlorinated solvents. Provide free assistance to customers wishing to replace ozone-depleting chemicals. Synthetic machining fluids, lubricants and maintenance specialties.

Aqueous cleaning formulations containing detergents with and without glycol ethers. Formulations made from hydrocarbons and terpenes with and without emulsifiers. Specialty solvent blends for printing ink cleanup, electric motor degreasing, cleaning printed circuit boards, and assorted textile mill applications.

Common solvents including aliphatics, aromatics, alcohols, chlorinateds, and ketones.

Aliphatic hydrocarbon blends, terpenes, surfactants, biodegradable emulsifiers, non-ozone depleting halogenated solvents, HCFCs. Specialty formulations for metal, urethane fiberglass (resin) clean-up processes via spray, wipe and immersion systems. Turn-key parts cleaning services. Recycling, disposal of generated waste solvents and waters.

Ultra-pure cleaners for electronics and metals.

Manufacturer of a non-solvent-based precision batch cleaning system, utilizing solvent materials filtered to .2um ppm. Process removes flux, oils and particulates by agitation, wetting and drying in an inert atmosphere. Also used for hybrids, and PCBs.

Coleman Chemical, Inc.
One Gemstar Lane
Joliet, IL 60435
Tel: (815) 727-3900
Fax: (815) 727-3998

Container Products Corp.
PO Box 3767
Wilmington, NC 28406
Tel: (919) 392-6100
Fax: (919) 392-6778

Detrex Corp.
4000 Town Center, Suite 1100
Southfield, MI 48175
Tel: (313) 358-5800
Fax: (313) 358-5803

Dow U.S.A.
Midland, MI 48674
Tel: (800) 337-4369
Fax: (517) 832-1465

Ecolink
1481 Rock Mountain Blvd.
Stone Mountain, GA 30083
Tel: (404) 621-8240
(800) 886-8240
Fax: (404) 621-8245

Electrolube Corporation USA
8200 Saint James Ave.
Elmhurst, NY 11373
Tel: (718) 565-5200
Fax: (718) 565-5715

Hubbard-Hall, Inc.
PO Box 790
Waterbury, CT 06725
Tel: (203) 754-2171
(800) 648-3412
Fax: (203) 596-9544
(203) 756-9017

Specialty formulations of non-ozone depleting HFCs available in 1995.

Systems incorporating a variety of aqueous cleaning techniques which include filtered negative pressure chambers, high pressure chambers, and mobile cleaning systems.

Aqueous micro-emulsion solution for gross metal cleaning and equipment for use with the cleaning solution. Alternative/vapor degreasing process, specialty equipment and solvents for metals and electronics cleaning, chlorinated and HCFC solvents, and aqueous and semi-aqueous solvents.

Trichloroethylene, methylene chloride, and perchloroethylene.

Wide range of aqueous, semi-aqueous and non-aqueous chemistries. Formulations include a variety of hydrocarbon, NMP, DBE and terpene products as well as non-ozone depleting halogenated solvents. Manufacture a complete line of batch cleaning units for use with these solvents.

Non-toxic, non-flammable, biodegradable aqueous solvents suitable for in-line and batch equipment without modification. Also ideal for screen and pallet cleaning and precision metal degreasing (ferrous and non-ferrous).

Kester Solder Division Litton Industries
515 E. Touhy Avenue
Des Plaines, IL 60018-2675
Tel: (708) 297-1600
Fax: (708) 390-9338

Navy Brand Mfg Co.
Division of Chemstar, Inc.
5111 Southwest Avenue
St. Louis, MO 63110-3496
Tel: (800) 325-3312
(314) 865-5500
Fax: (314) 865-5509

Oakite Products, Inc.
50 Valley Road
Berkeley Heights, NJ 07922
Tel: (908) 508-2107
Fax: (908) 464-9250

Occidental Chemical Corp.
Technical Center
PO Box 344
Niagara Falls, NY 14302
Tel: (800) 733-1165
Fax: (716) 278-7297

PPG Industries, Inc.
Chemicals Group
One PPG Place
Pittsburgh, PA 15272
Tel: (800) 243-6774
Fax: (412) 434-2401

Alcohol-based cleaners, solvent blends, and aqueous saponifiers. Also manufacture no-clean, water-clean, and VOC-free; fluxes, solders, and solder pastes.

Industrial degreasers for metal cleaning and parts cleaning. Formulations are based on non-ozone depleting solvents. Also solvent-based, aqueous-based and also semi-aqueous-based products for a variety of cleaning applications on a host of substrates, both metallic and non-metallic.

High-tech, state-of-the-art, recyclable cleaning products for use in immersion, ultrasonic, hand wipe, and other cleaning applications. Many aqueous and semi-aqueous formulations adhere to the Clean Air Act, OSHA regulations, and do not contain SARA 313 ingredients. Comprehensive lines of products that exhibit biodegradability, oil splitting or emulsifying features. Terpene-based cleaners have no flash point, and alkaline, aqueous formulations include non-phosphated, non-chelated, mildly alkaline cleaners.

Specially stabilized methylene chloride for a wide variety of applications. Formulations of halogenated toluenes and benzotrifluorides for cold cleaning of metals and electronics. Ethylene based glycol ethers for use in many cleaning formulations.

Trichloroethylene, perchloroethylene, and methylene chloride.

Rite Off, Inc.
Seaford Industrial Park
P.O. Box 1070
Seaford, DE 19973
Tel: (800) 645-5853
(302) 628-2100
Fax: (800) 571-2211

Rochester Midland Corp.
333 Hollenbeck St.
Rochester, NY 14621
Tel: (716) 336-2200
Fax: (716) 467-4406

Selig Chemical Industries
PO Box 43106
840 Selig Dr. SW
Atlanta, GA 30378
Tel: (404) 691-9220
Fax: (404) 699-7024

Working Solutions, Inc.
938 Cortlandt Street
Houston, TX 77008
Tel: (800) 829-4419
Fax: (713) 862-5591

Zip-Chem Products
1860 Dobbin Dr.
San Jose, CA 95133
Tel: (408) 729-0291
(800) 648-2661
Fax: (408) 272-8062

HCFCs

Allied-Signal
PO Box 1139R
Morristown, NJ 07960
Tel: (201) 455-4848
Fax: (201) 455-2745

Wide variety of cleaning and maintenance formulations using alcohols, terpenes, HFCs, hydrocarbons and chlorinated solvents. Specialists in aerosol technology, liquid formulations also available.

Formulations comprised of hydrocarbon and/or terpene solvents. Some also contain surfactants. Many contain alkaline builders and chelants as well as glycol ethers. Some aqueous-based or water-compatible formulations exhibit good biodegradability. Many products allow for good oil/grease separation upon standing.

Formulations made of hydrocarbons and blends of hydrocarbons and emulsifiers. Also offer aqueous-based formulations containing detergents with and without glycol ethers and some containing d-limonene.

Aqueous, semi-aqueous and solvent cleaning technologies and equipment.

Aqueous, semi-aqueous aliphatic hydrocarbon, terpene and alcohol-based cleaners. Application oriented packaging like wipes, aerosols, specialty containers, and other delivery systems available.

Asahi Glass America, Inc.
450 Lexington Ave., Suite 1920
New York, NY 10017-3911
Tel: (212) 687-4600
Fax: (212) 687-4663

Atochem North America
Three Parkway
Philadelphia, PA 19102
Tel: (215) 587-7192
Fax: (215) 587-7199

A.W. Chesterton
225 Fallon Road
Middlesex Industrial Park
Stoneham, MA 02180-2999
Tel: (617) 438-7000
Fax: (617) 438-8971

Chemical Solvents, Inc.
3751 Jennings Road
Cleveland, OH 44109
Tel: (216) 741-9310
Fax: (216) 741-4080

Chemtronics, Inc.
8125 Cobb Center Dr.
Kennesaw, GA 30144
Tel: (404) 424-4888
Fax: (404) 424-4267

Cobehn, Inc.
640 Airport Road
Winchester, VA 22602
Tel: (703) 665-0707
Fax: (703) 665-0768

HCFC-225ca/cb can be used as a single product as well as an alcohol mixture or with surface active agents. Compatible with most metals and plastics, and applicable for degreasing, defluxing, particle-removing, drying and dry-cleaning, with low total energy consumption.

A complete line of aqueous cleaners containing detergents, with and without glycol ethers. Hydrocarbon solvents and solvent blends. Non-ozone depleting chlorinated solvents. Provide free assistance to customers wishing to replace ozone-depleting chemicals. Synthetic machining fluids, lubricants and maintenance specialties.

Aliphatic hydrocarbon blends, terpenes, surfactants, biodegradable emulsifiers, non-ozone depleting halogenated solvents, HCFCs. Specialty formulations for metal, urethane fiberglass (resin) clean-up processes via spray, wipe and immersion systems. Turn-key parts cleaning services. Recycling, disposal of generated waste solvents and waters.

Ultra-pure cleaners for electronics and metals.

Manufacturer of a non-solvent-based precision batch cleaning system, utilizing solvent materials filtered to .2um ppm. Process removes flux, oils and particulates by agitation, wetting and drying in an inert atmosphere. Also used for hybrids, and PCBs.

Coleman Chemical, Inc.
One Gemstar Lane
Joliet, IL 60435
Tel: (815) 727-3900
Fax: (815) 727-3998

CRC Industries, Inc.
885 Louis Dr.
Warminster, PA 18974
Tel: (215) 674-4300
Fax: (215) 674-2196

Detrex Corp.
4000 Town Center, Suite 1100
Southfield, MI 48175
Tel: (313) 358-5800
Fax: (313) 358-5803

Ecolink
1481 Rock Mountain Blvd.
Stone Mountain, GA 30083
Tel: (404) 621-8240
(800) 886-8240
Fax: (404) 621-8245

Electrolube Corporation USA
8200 Saint James Ave.
Elmhurst, NY 11373
Tel: (718) 565-5200
Fax: (718) 565-5715

Micro Care Corp.
34 Ronzo Road
Bristol, CT 06010
Tel: (203) 585-7912
Fax: (203) 585-7378

Specialty formulations of non-ozone depleting HFCs available in 1995.

Aerosol and bulk packages of HCFCs.
Nonflammable and leaves no residue. May not be compatible with some plastics such as polycarbonates and polystyrene.

Aqueous micro-emulsion solution for gross metal cleaning and equipment for use with the cleaning solution. Alternative/vapor degreasing process, specialty equipment and solvents for metals and electronics cleaning, chlorinated and HCFC solvents, and aqueous and semi-aqueous solvents.

Wide range of aqueous, semi-aqueous and non-aqueous chemistries. Formulations include a variety of hydrocarbon, NMP, DBE and terpene products as well as non-ozone depleting halogenated solvents. Manufacture a complete line of batch cleaning units for use with these solvents.

Non-toxic, non-flammable, biodegradable aqueous solvents suitable for in-line and batch equipment without modification. Also ideal for screen and pallet cleaning and precision metal degreasing (ferrous and non-ferrous).

Solvent cleaners based on but not limited to terpene hydrocarbon, alcohol, or HCFC technologies. Formulations are engineered for use in non-automated hand cleaning applications where rinsing is not available. Cleaners are effective in touch-up cleaning and precision cleaning of all types of flux residues, oils, grease and grime.

Rite Off, Inc.
Seaford Industrial Park
P.O. Box 1070
Seaford, DE 19973
Tel: (800) 645-5853
(302) 628-2100
Fax: (800) 571-2211

Selig Chemical Industries
840 Selig Dr. SW
Atlanta, GA 30336-2240
Tel: (404) 691-9220
Fax: (404) 699-7024

Working Solutions, Inc.
938 Cortlandt Street
Houston, TX 77008
Tel: (800) 829-4419
Fax: (713) 862-5591

Wide variety of cleaning and maintenance formulations using alcohols, terpenes, HFCs, hydrocarbons and chlorinated solvents. Specialists in aerosol technology, liquid formulations also available.

Formulations made of hydrocarbons and blends of hydrocarbons and emulsifiers. Also offer aqueous-based formulations containing detergents with and without glycol ethers and some containing d-limonene.

Aqueous, semi-aqueous and solvent cleaning technologies and equipment.

OTHER CLEANING ALTERNATIVES AND EQUIPMENT

3M Company
Specialty Chemicals Division
Building 223-65-04
St. Paul, MN 55144
Tel: (612) 733-1710
Fax: (612) 733-6791

ACCEL
1825 E. Piano Parkway
Piano, TX 75074-8129
Tel: (214) 424-3525
Fax: (214) 424-7526

Altos Engineering, Inc.
6009 N. 61 Ave
Glendale, AZ 85301
Tel: (602) 931-8434
Fax: (602) 937-6396

Ambassador Marketing
Route 1-Box 207
St. David, AZ 85630
Tel: (602) 720-4310
Fax: (602) 720-4068

Ardrox Inc.
16961 Knott Avenue
La Mirada, CA 90638
Tel: (714) 739-2821
Fax: (714) 670-6480

A.W. Chesterton
225 Fallon Road
Middlesex Industrial Park
Stoneham, MA 02180-2999
Tel: (617) 438-7000
Fax: (617) 438-8971

Perfluorocarbon-based fluids used as rinsing materials in specialty niche cleaning applications. These fluids are especially designed for cleaning processes for high-value parts when aqueous or semi-aqueous cleaning are not viable options.

System utilizing centrifugal cleaning to provide superior washing, effective rinsing, and drying of populated printed circuit boards and hybrid circuits. Includes automatic solvent recycling and rinse water purification with no required drain. Compatible with chlorocarbons, fluorocarbons, H₂O, and terpenes.

Batch and inline cleaning equipment with non-chemical, thermal vacuum drying of rinse waters. Detergent formulations available with and without glycol ethers.

Aqueous and alcohol-based cleaners for low residue degreasing and dewaxing applications. Formulations are nonflammable and nonfuming.

Full range of aqueous-based formulations as well as aliphatic hydrocarbon-based blends, terpene-based formulations, hydrocarbon-based solvent blends and other cleaning alternatives and equipment.

A complete line of aqueous cleaners containing detergents, with and without glycol ethers. Hydrocarbon solvents and solvent blends. Non-ozone depleting chlorinated solvents. Provide free assistance to customers wishing to replace ozone-depleting chemicals. Synthetic machining fluids, lubricants and maintenance specialties.

Babcock & Wilcox CIM Systems
4004 Murray Place
Lynchburg, VA 24501
Tel: (804) 948-1361
Fax: (804) 948-1313

Baron-Blakeslee, Inc.
1500 West 16th St.
Long Beach, CA 90813
Tel: (800) 548-4422
Fax: (310) 491-1091

Blackstone Ultrasonics, Inc.
9 North Main St.
Jamestown, NY 14701
Tel: (716) 665-2340
(800) 766-6606
Fax: (716) 665-2480

Branson Ultrasonics Inc.
41 Eagle Rd.
Danbury, CT 06810
Tel: (203) 796-0400
Fax: (203) 796-0381

Break-Free, Inc.
1035 S. Linwood Avenue
Santa Ana, CA 92705-4396
Tel: (714) 953-1900
Fax: (714) 953-0402

Provide turnkey automated cleaning and inspection (SQC/SPC) systems for complete integration into process cleaning lines, including aqueous and non-aqueous systems, material handling, drying, cleanliness and geometric inspection, and computer protocol communication. Full-scope of services from process selection, development, installation, training, and continued follow-up support.

Full line of cleaning equipment for use with aqueous, semi-aqueous, HCFC, and chlorinated solvents. Closed loop system incorporating vacuum drying available (near zero emissions).

Complete range of ultrasonic cleaning products from stand-alone and bench-top heated tanks to wash/multiple rinse/dry console systems with optional material handling and automation. Also, fluxless ultrasonic solder pots for tinning leads and electronics.

Ultrasonic cleaning equipment and integrated cleaning systems for metal, electronic, and precision cleaning requirements. Manual and fully automated material handling/transport systems. Equipment for aqueous, semi-aqueous and solvent chemistry.

Unique blend of orange oils and highly refined synthetic hydrocarbons formulated as a safe replacement for most chlorinated or halogenated, ozone-depleting solvents. Applications include degreasing, removal of oils, wax, tar, adhesives, fresh paint and oil-based inks. Also water-based, alkaline cleaners for the removal of heavy soil contaminants.

Carroll Company
2900 W. Kingsley Road
Garland, TX 75041
Tel: (800) 527-5722
Fax: (214) 840-0678

Castrol, N.A., Specialty Products Division
16715 Von Karman Avenue, Suite 230
Irvine, CA 92714
Tel: (714) 660-9414
Fax: (714) 660-9374

CF TECHnologies, Inc.
1 Westinghouse Plaza, Suite 200
Hyde Park, MA 02136-2059
Tel: (617) 364-2500
Fax: (617) 364-2550

Chemical Solvents, Inc.
3751 Jennings Road
Cleveland, OH 44109
Tel: (216) 741-9310
Fax: (216) 741-4080

Chem-Tech International
1800 Diagonal Rd., Suite 600
Alexandria, VA 22314
Tel: (703) 549-1001
Fax: (703) 549-1003

Church & Dwight Co., Inc.
469 N. Harrison St.
Princeton, NJ 08543-5297
Tel: (609) 497-7230

Aqueous cleaning formulations containing detergents with and without glycol ethers. Formulations made from hydrocarbons and terpenes with and without emulsifiers. Specialty solvent blends for printing ink cleanup, electric motor degreasing, cleaning printed circuit boards, and assorted textile mill applications.

Fluoroclean™ X-100, a PFC, which is acceptable for use in certain high performance cleaning and drying applications such as the residual free removal of specialized halogenated lubricants used with aerospace and avionics components, oxygen service equipment and components, medical services and equipment, critical analytical devices, and oil and gas exploration and associated supply components.

Supercritical fluid extraction cleaning process for removing organic solvent, oil and lubricant residues. May also be effective for particulate removal when used in conjunction with agitation and/or ultrasonics.

Aliphatic hydrocarbon blends, terpenes, surfactants, biodegradable emulsifiers, non-ozone depleting halogenated solvents, HCFCs. Specialty formulations for metal, urethane fiberglass (resin) clean-up processes via spray, wipe and immersion systems. Turn-key parts cleaning services. Recycling, disposal of generated waste solvents and waters.

Aqueous-based formulations containing detergents with and without glycol ethers as well as blends of hydrocarbons and emulsifiers which, when used in combination, provide residue-free cleaning. Can be used on all metals, teflon, plastic, and painted coatings. Also specially designed cleaning equipment.

Cincinnati Industrial Machinery
PO Box 62027
3280 Hageman St.
Cincinnati, OH 45241 (street add.)
45262 (PO Box)
Tel: (513) 769-0700
Fax: (513) 769-0697

Circle-Proscio, Inc.
2017 Yost Ave.
Bloomington, IN 47403
Tel: (812) 339-3653
Fax: (812) 331-2566

Cobehn, Inc.
640 Airport Road
Winchester, VA 22602
Tel: (703) 665-0707
Fax: (703) 665-0768

Cold Jet, Inc.
455 Wards Corner Rd.
Loveland, OH 45140
Tel: (513) 831-3211
Fax: (513) 831-1209

Conceptronic, Inc.
6 Post Rd.
Portsmouth, NH 03801
Tel: (603) 431-6262
Fax: (603) 431-3303

Container Products Corp.
PO Box 3767
Wilmington, NC 28406
Tel: (919) 392-6100
Fax: (919) 392-6778

Custom designed machines for cleaning,
surface preparation and other processing of
metal and non-metallic parts.

Aqueous, alkaline, etchant cleaners for ferrous
and non-ferrous applications. Aqueous,
acidic, neutral, and alkaline oil rejecting
cleaners with or without glycol ethers for
ferrous and non-ferrous applications. Water
miscible, semi-aqueous cleaners (electronics
cleaning). Water emulsifiable cleaners
containing aliphatic and terpene solvents.
Evaporative oils for no clean applications.

Manufacturer of a non-solvent-based
precision batch cleaning system, utilizing
solvent materials filtered to .2um ppm.
Process removes flux, oils and particulates by
agitation, wetting and drying in an inert
atmosphere. Also used for hybrids, and PCBs.

Dry ice blasting process using small pellets of
carbon dioxide (dry ice) as the blasting media.
Pellets sublime on contact leaving no media
for containment or disposal. Process currently
being used in molded products, baking/food
production, hazardous cleaning, automotive,
aerospace (military and commercial) and
contract cleaning industries.

Semi-aqueous, spray-based, totally closed-
loop modular batch cleaning systems utilizing
non-flammable, naturally derived alcohol
solvents in solution with water. Also have an
ultrasonic batch cleaning system for metallic
and non-metallic electronic surfaces and other
difficult-to-clean non-electronic parts of
unusual geometric shape.

Systems incorporating a variety of aqueous
cleaning techniques which include filtered
negative pressure chambers, high pressure
chambers, and mobile cleaning systems.

Creative Enterprizes
105 Anyway, Suite 209
Lake Jackson, TX 77566
Tel: (409) 292-0244
Fax: (409) 292-0440

Crest Ultrasonics
Scotch Rd. - Mercer County Airport
PO Box 7266
Trenton, NJ 08628
Tel: (609) 883-4000
(800) 441-9675
Fax: (609) 883-6452

DEFLEX Corp.
631 Ruberta Ave.
Glendale, CA 91201
Tel: (818) 241-7500
Fax: (818) 241-7532

Dell-Chem of Arizona
7119 E. Shea Blvd., Suite 106-224
Scottsdale, AZ 85254
Tel: (602) 951-5812
Fax: (602) 948-4172

Dow Corning Corp.
PO Box 994
Midland, MI 48686-0994
Tel: (517) 496-4000
Fax: (517) 496-4511

Durr Industries, Inc.
10301 Enterprise Dr.
Davisburg, MI 48350
Tel: (313) 625-5400
Fax: (313) 625-5966

Specialize in low cost conversion of existing facilities to safely use alternative cleaning agents. Design new or custom cleaning equipment and processes. Also design environmentally secure drying equipment and processes.

Precision cleaning equipment (primarily ultrasonic systems) from standard wash-rinse-dry cleaning consoles to large custom automated batch cleaning equipment. Ultrasonic generator is sweep frequency generator capable of cavitating both aqueous and semi-aqueous chemistries. Full line of aqueous-based cleaning chemistries for ultrasonic applications as well.

Energized supercritical fluids. Gross and precision cleaning machines which accept most standard baskets and loads to 250 lbs for cleaning a variety of products. Other products include dense fluid recycling systems and various racks/fixtures.

Aqueous and alcohol-based cleaners for low residue degreasing and dewaxing applications. Formulations are nonflammable and nonfuming.

Volatile methyl siloxane (VMS) fluids containing no additives. Effective in removing cutting fluids, greases, body oils, and particles in cleaning of precision parts and metals. Easily recyclable by distillation an/or filtration.

All aqueous and semi-aqueous systems recycle and reuse process water. Solvent systems reduce emissions by 99% over conventional degreasing systems.

Ecolink
1481 Rock Mountain Blvd.
Stone Mountain, GA 30083
Tel: (404) 621-8240
(800) 886-8240
Fax: (404) 621-8245

EcoSoft Systems Industrial
104 Clearfield Lane, Suite 204
Coatesville, PA 19320
Tel: (215) 384-7200
Fax: (215) 383-9951

Electronic Controls Design Inc.
4287-A SE International Way
Milwaukie, OR 97006
Tel: (503) 659-6100
(800) 323-4548
Fax: (503) 659-4422

Environmental Solvents Corp.
1840 Southside Blvd.
Jacksonville, FL 32216
Tel: (904) 724-1990
Fax: (904) 724-2508

EnviroPro Technologies
PO Box 5051
2930 West 22nd St.
Erie, PA 16512
Tel: (814) 838-5888
Fax: (814) 833-0145

Envirosolutions Inc.
335 Post Road West
Westport, CT 06880
Tel: (203) 454-5902
Fax: (203) 222-0190

Wide range of aqueous, semi-aqueous and non-aqueous chemistries. Formulations include a variety of hydrocarbon, NMP, DBE and terpene products as well as non-ozone depleting halogenated solvents. Manufacture a complete line of batch cleaning units for use with these solvents.

Electronic descaling systems for hard water treatment.

Coniferous (pine) terpene alternatives to hydrocarbon-based solvent cleaning. Can be used in single cold immersion or in solvent-wash/solvent rinse/dry process for water-free precision cleaning and defluxing.

One step cleaning system using supercritical carbon dioxide.

Biodegradable, non-caustic, neutral pH cleaner which is used in a closed loop parts washing system. Several different formulations developed to suit a variety of cleaning needs. Customized parts washing equipment is matched to the cleaning chemicals to ensure optimum performance.

Exxon Chemical Co.
PO Box 3272
Houston, TX 77253-3272
Tel: (800) 526-0749
Fax: (713) 870-6661

Acetate ester cleaners, as well as hydrocarbon fluid components with a broad range of properties available for use in blended formulations. Low residue, low corrosivity to metals. Effective for broad range of grimes (electronics). Formulations comprised of esters and hydrocarbon components effective in removing greases, oils and waxes found in metal, electronics, and precision cleaning.

Forward Technology Industries, Inc.
13500 County Road 6
Minneapolis, MN 55446-2777
Tel: (612) 559-1785
Fax: (612) 559-3929

Standard and custom FM-approved flammable solvent vapor degreasers for use with alcohol, cyclohexane, VMS solvents, azeotropes, and co-solvent applications. M/BACT vapor degreasers for use with PFCs, HCFCs and HFCs. Automation and superheat drying offered. Also other custom aqueous and semi-aqueous cleaning equipment available.

Finishing Equipment Inc.
3640 Kennebec Dr.
St. Paul, MN 55122
Tel: (612) 452-1860
Fax: (612) 452-9851

Aqueous, semi-aqueous and solvent cleaning systems available. From manual systems to automated high-production cleaning lines, with ultrasonics available as needed. Specialize in automated enclosed vapor degreasers for efficient use of the non-ozone depleting chlorinated solvents.

Firefreeze Worldwide, Inc.
270 Route 46 East
Rockaway, NJ 07866
Tel: (973) 627-0722
Fax: (973) 627-2982

Aqueous based degreasing, cleaning and odor eliminating formulations. Products are plant derived, environmentally friendly, non-corrosive, non-flammable, and fully biodegradable. Unique applications for waste water and sludge treatment and oil/grease separation and removal. Can be used in hand sprayers, water pressurized units, power washers, and other spray equipment.

Flura Corporation
610 Rock Hill Road
Newport, TN 37821
Tel: (615) 623-4111
Fax: (615) 623-4111

FMT Inc. (Findlay Machine & Tool)
1950 Industrial Dr.
Findlay, OH 45840
Tel: (419) 422-0768
(800) 878-8011
Fax: (419) 422-0072

Fremont Industries, Inc.
4400 Valley Industrial Park
Shakopee, MN 55379
Tel: (612) 445-4121
Fax: (612) 496-3027

GaSonics/IPC
2730 Junction Ave.
San Jose, CA 95134-1909
Tel: (408) 944-0212
Fax: (408) 473-9530

Hurricane Systems, Inc.
2080 Brooklyn Rd.
PO Box 867
Jackson, MI 49204
Tel: (517) 787-3481
Fax: (517) 787-2349

Insitu Environmental Chemical Co.
8402 East Redwing Rd.
Scottsdale, AZ 85250-5740
Tel: (602) 948-9209
Fax: (602) 951-0715

International Specialty Products
1361 Alps Rd.
Wayne, NJ 07470
Tel: (201) 628-3000
Fax: (201) 628-4117

Perfluorocarbons used for high performance cleaning applications where no other compatible cleaners are available.

Custom engineered parts cleaning equipment, standard parts cleaning equipment, and pollution control equipment.

Aqueous-based metal cleaning and non-metallic substrate cleaning formulations and application equipment. Includes spray, soak, and ultrasonic cleaners in rinse and no-rinse formulations.

Low temperature plasma (RF discharge) equipment/process utilizes industrial grade gases such as oxygen, air, and nitrogen or combinations thereof. Highly effective on all materials and widely used in electronic device cleaning, flux/solder removal and medical device cleaning.

Wide range of "off-the-shelf", semi-custom, and custom parts cleaning systems using water-based cleaning compounds. Systems include: belt, rotary and overhead conveyors for continuous and batch processing; carousel, cabinet, and agitation tank washers; multi-stage wash, rinse, oxidation inhibit, and dry; oil removal and oil skimming devices; electric, gas, and steam heat packages.

Aqueous and alcohol-based cleaners for low residue degreasing and dewaxing applications. Formulations are nonflammable and nonfuming.

Specialty solvents comprised of N-methyl-2-pyrrolidone (NMP) and gamma-butyrolactone (BLO) as well as other proprietary ingredients. Products are biodegradable, water soluble, and recyclable.

JM Associates, Inc.
225 Railroad Avenue
Bedford Hills, NY 10507
Tel: (914) 241-3795
Fax: (914) 241-3731

JnJ Industries
195 E. Main St.
Suite 303
Milford, MA 01757
Tel: (800) 554-9994
Fax: (508) 478-2221

KLN Ultraschall GmbH
Siegfriedstr. 124
D-64646 Heppenheim
GERMANY
Tel: +49-6252-14-0
Fax: +49-6252-14-277

Kyzen Corporation
430 Harding Industrial Drive
Nashville, TN 37211
Tel: (615) 831-0888
Fax: (615) 831-0889

Lewis Corp.
102 Willenbrock Rd.
Oxford, CT 06478-1033
Tel: (203) 264-3100
Fax: (203) 264-3102

New bioremediation technology: safe, non-toxic, non-caustic, neutral pH, non-flammable aqueous cleaning solution with hydrocarbons. Has successfully replaced hazardous solvents in vehicle maintenance, metals cleaning and precision manufacturing operations. Also solvents for auto, marine, contaminated soil and grease cleaning. Application of cleaners by immersion, spray or within closed-loop industrial systems.

Manufacturer of eight non-CFC formulations including a supersaturated wipe solvent.

Standard and custom flammable solvent vapor degreasers for use with alcohol, cyclohexane, VMS solvents, azeotropes, and co-solvent applications, with automation. IPA dryers for post-aqueous drying. Also other custom aqueous and semi-aqueous cleaning equipment.

A broad line of non-hazardous, zero ODP, biodegradable, and low VOC cleaning products. Kyzen products are used for cold cleaning, immersion solvent cleaning, and aqueous spray cleaning. These materials are compatible with a wide range of cleaning machines: spray in air, spray in immersion, soak, and ultrasonic. Kyzen products can be used in closed looped systems for low/zero discharge by a variety of commonly available water reuse systems.

Manufacturer of industrial cleaning systems, specializing in aqueous-based chemistries. Both ultrasonic and non-ultrasonic washers available.

Liquid Carbonic Supercritical
966 Postal Rd.
Allentown, PA 18103
Tel: (215) 266-9693
Fax: (215) 266-1482

Micro Care Corp.
34 Ronzo Road
Bristol, CT 06010
Tel: (203) 585-7912
Fax: (203) 585-7378

Ney Ultrasonics
1280 Blue Hills Avenue
Bloomfield, CT 06002
Tel: (203) 286-6149
Fax: (203) 286-6150

Occidental Chemical Corp.
Technical Center
PO Box 344
Niagara Falls, NY 14302
Tel: (800) 733-1165
Fax: (716) 278-7297

Performance Manufacturing Co.
Malsbary Division
9615 Inter Ocean Drive
Cincinnati, OH 45246
Tel: (513) 870-0200
Fax: (513) 870-0182

Petroferm Inc.
5415 First Coast Highway
Fernandina Beach, FL 32034
Tel: (904) 261-8286
Fax: (904) 261-6994

Supercritical carbon dioxide cleaning technology and equipment. Closed loop or open loop recirculation systems effectively remove organic material from the component to be cleaned.

Solvent cleaners based on but not limited to terpene hydrocarbon, alcohol, or HCFC technologies. Formulations are engineered for use in non-automated hand cleaning applications where rinsing is not available. Cleaners are effective in touch-up cleaning and precision cleaning of all types of flux residues, oils, grease and grime.

Equipment for batch/manual and batch/automated cleaning using aqueous, water-miscible, semi-aqueous, and solvent chemistries. Complete application development laboratory to assist users.

Specially stabilized methylene chloride for a wide variety of applications. Formulations of halogenated toluenes and benzotrifluorides for cold cleaning of metals and electronics. Ethylene based glycol ethers for use in many cleaning formulations.

Steam Jet parts cleaning systems used in the removal of machining oils, dye penetrants, wax, and other contaminants from complex machined or cast parts.

Broad line of formulations based on terpenes, ester, and aliphatic hydrocarbons and blends of these organic solvents with surfactants. Products are used for cold (hand) cleaning and in combination with various cleaning equipment. Products can be removed by evaporation, water, alcohols or nonflammable fluorinated solvents. Both products and rinse media can be recycled.

P-T Technologies
108 4th Avenue South
Safety Harbor, FL 34695
Tel: (800) 441-7874
(813) 726-4644
Fax: (813) 725-9544

Ramco Equipment Corporation
32 Montgomery Street
Hillside, NJ 07205
Tel: (908) 687-6700
Fax: (908) 687-0653

Ransohoff Co.
North 5th St at Ford Boulevard
Hamilton, OH 45011
Tel: (513) 863-5813
(800) 248-WASH
Fax: (513) 863-8908

Rapid Engineering, Inc.
P.O. Box 700
1100 Seven Mile Road N.W.
Comstock Park, MI 49321-0700
Tel: (616) 784-0500
Fax: (616) 784-0435

REM Sales
34 Bradley Park Road
East Grandie, CT 06026
Tel: (203) 653-0071
Fax: (203) 653-0393

R.G. Hanson Co., Inc.
703 E. Lincoln
Bloomington, IL 61701
Tel: (309) 828-5070
(800) 392-0903
Fax: (309) 829-3294

Non-halogenated hydrocarbon-based specialty cleaning and degreasing formulations for precision cleaning. Also offer vapor degreaser alternatives, ionic contaminant removers, acetone, MEK alternatives for specific industrial applications.

Standard line of single and multi-station aqueous degreasing systems with a wide selection of options including platform oscillation, directional turbulence, oil removal, ultrasonics, filtration, parts rotators and dryers. Nationwide network of application engineers to assist from process development through installation.

Standard and custom aqueous and semi-aqueous cleaning equipment for small through high production parts cleaning requirements, as well as very small to large part configurations and various part materials. Expertise in precision cleaning. Patented, mechanically agitated aqueous technology for high volume intricately shaped or machined parts as a direct replacement of solvent vapor degreasing and ultrasonic cleaning systems.

Parts washers utilizing low to medium pressure spraying of aqueous solutions on metal and plastic substrates. Exhaust incinerators for lowering VOC discharge to the atmosphere.

Very low emission, closed-loop vapor degreasing equipment for chlorinated solvents.

Aqueous cleaning chemicals and equipment. New equipment using only steam to clean also available.

S.A.S., Inc.
2435 North Indian Hill Blvd
Claremont, CA 91711-1730
Tel: (909) 624-0396
Fax: (909) 624-6336

Aqueous cleaning machines, part washers using spray, immersion, agitation, and ultrasonics. Range of detergents, cleaners, oil skimmers, exhaust systems, filtering systems, auto rinse systems, and hot air dryers.

Serec Corp.
P.O. Box 28129
Providence, RI 02908
Tel: (401) 421-6080
Fax: (401) 521-5690

Manufacturers and designers of cleaning equipment using organic and chlorinated solvents. Equipment design uses vacuum technology to reduce emissions to near zero without refrigeration.

S&K Products International
80 Red Schoolhouse Rd. #102
Chestnut Ridge, NY 10977
Tel: (914) 425-6200
Fax: (914) 425-7602

Isopropyl alcohol cleaning, degreasing, vapor drying systems.

Smart Sonic Precision Cleaning Systems
2372 Teller Rd., #107
Newbury Park, CA 91320
Tel: (805) 499-7440
Fax: (805) 375-5781

Automated ultrasonic and spray batch cleaners for precision cleaning of metal, plastic, and ceramic parts. Systems clean oils, particulate and other contaminants. Optional waste evaporator.

Solidstrip Inc.
601 Interchange Blvd.
Newark, DE 19711
Tel: (302) 292-8340
(800) 677-4568
Fax: (302) 292-8321

Acrylic plastic blasting media for paint stripping.

Sonitech Inc.
239 East Stephenson St.
Freeport, IL 61032
Tel: (815) 235-2400
Fax: (815) 232-2150

Ultrasonic cleaning equipment using aqueous or semi-aqueous chemistries for a wide range of applications. Complete systems include cleaning tanks, rinse, tanks, dryers and closed loop rinse water recirculation systems. System uses alcohol or other solvents with perfluorinated chemistry for rinsing and drying non-water contact applications.

Step Kare Corporation
P.O. Box 211
Highland Park, IL 60035
Tel: (708) 358-2158
Fax: (708) 358-2158

Sub-Micron Cleaning Systems
P.O. Box 219
Carpinteria, CA 93013
Tel: (805) 566-3830
Fax: (805) 566-3813

Surftran
Division of Robert Bosch Corporation
30250 Stephenson Hwy
Madison Heights, MI 48071
Tel: (810) 691-2560
Fax: (810) 847-0206

Tally Cleaning Systems
Division of Letfab Engineering
332 John Diestch Blvd.
Attleboro Falls, MA 02763
Tel: (508) 695-1007
Fax: (508) 695-6335

Thierica
900 Clancy Ave.
Grand Rapids, MI 49503
Tel: (616) 458-1538
Fax: (616) 458-7120

Water-based flux remover, effective on rosin and non-rosin fluxes; aqueous coating remover. Also removes cutting oils and other contaminants. Non-aqueous coating remover contains no petroleum distillates or glycol ethers. Capable of removing conformal coatings or rosin fluxes in a non-aqueous formulation.

Solid/gas CO₂ spray cleaning equipment for removing particulate contamination from critical surfaces, and the removal of sub-micron size particles. Applications include cleaning commercial and military optical components and systems, hard disk drives, semiconductor manufacturing equipment, electro-plating and polishing, and cleaning medical equipment.

Precision and non-precision aqueous cleaning equipment. Environmentally sound chemical cleaners and rust inhibitors for aqueous cleaning.

Single and multiple stage flat belt spraywashers, monorail spraywashers and rotary drum spraywashers which utilize aqueous-based cleaning formulations. Complete custom systems available which include spraywash, sprayrinse, rustinhibit, hot air dry, particle filtration, oil separation, etc.

New low cost spray equipment manages extremely difficult cleaning jobs. Used with large and small parts containing baked grease and paint soils. Designed to be safe and environmentally secure with hydrocarbon and aqueous cleaning agents. Stainless steel construction.

Tiyoda Mfg. U.S.A., Inc.
1613 Lockness Place
Torrance, CA 90501
Tel: (310) 539-5471
Fax: (310) 539-5881

Ultrasonic Power Systems Ltd.
Unit C1
Hortonwood 10
Telford, Shropshire
ENGLAND TF1 4ES
Tel: 0952 676646
Fax: 0952 676599

Ultronix Inc.
104 Niantic Rd.
Barto, PA 19504
Tel: (800) 553-7881
Fax: (215) 845-3995

Unitech Industrial Inc.
PO Box 330
16 South Ave,
Wappingers Falls, NY 12590
Tel: (914) 297-0745
(800) 277-5522
Fax: (914) 297-2919

Vector Environmental, Inc.
3374 West Hopkins Street
Milwaukee, WI 53216
Tel: (414) 444-4010
Fax: (414) 449-2628

Closed-loop and self-contained ultrasonic batch cleaning system. Ultrasonic immersion (spray is optional) and vapor cleaning combined with vacuum drying provide complete cleaning and drying of virtually any component or part. Near zero emissions.

Alcohol cleaning using perfluorocarbons as a vapor blanket to inhibit flammability.

Retrofit existing equipment for HCFCs, chlorinated solvents, perfluorinated chemicals, and hydrocarbon-based solvents. New equipment (manual or automated) for efficient use of non-aqueous vapor phase chemicals.

Closed loop industrial cleaning systems. Spray washers, batch cleaning systems, vapor degreasing, and pretreatment systems available in new equipment and retrofits. Waste water treatment and recycling, 100% oil removal from the cleaning process.

Manufacturers of solvent emission control technologies including closed-loop systems for flushing, spraying, degreasing, ultrasonics, drying, coating, and bonding. All equipment compatible with flammable solvents, blends, and azeotropes.

Zip-Chem Products
1860 Dobbin Dr.
San Jose, CA 95133
Tel: (408) 729-0291
(800) 648-2661
Fax: (408) 272-8062

Aqueous, semi-aqueous aliphatic hydrocarbon, terpene and alcohol-based cleaners. Application oriented packaging like wipes, aerosols, specialty containers, and other delivery systems available.

POLLUTION CONTROL EQUIPMENT

American Metal Wash, Inc.
PO Box 265
360 Euclid Ave.
Canonsburg, PA 15317
Tel: (412) 746-4203
Fax: (412) 746-5738

Line of evaporators, coalescers, and solution filtration systems designed to assist in cleaning up the cleaning solutions. Units can be provided as batch components to be added to current systems or totally automated to be incorporated with an existing system or with new cleaning equipment.

Baron-Blakeslee, Inc.
1500 West 16th St.
Long Beach, CA 90813
Tel: (800) 548-4422
Fax: (310) 491-1091

Full line of cleaning equipment for use with aqueous, semi-aqueous, HCFC, and chlorinated solvents. Closed loop system incorporating vacuum drying available (near zero emissions).

Better Engineering Mfg., Inc.
8361 Town Center Court
Baltimore, MD 21236-4964
Tel: (410) 931-0000
(800) 229-3380
Fax: (410) 931-0053

Break-Free, Inc.
1035 S. Linwood Avenue
Santa Ana, CA 92705-4396
Tel: (714) 953-1900
Fax: (714) 953-0402

CF TECHnologies, Inc.
1 Westinghouse Plaza, Suite 200
Hyde Park, MA 02136-2059
Tel: (617) 364-2500
Fax: (617) 364-2550

Cincinnati Industrial Machinery
PO Box 62027
3280 Hageman St.
Cincinnati, OH 45241 (street add.)
45262 (PO Box)
Tel: (513) 769-0700
Fax: (513) 769-0697

Cobehn, Inc.
640 Airport Road
Winchester, VA 22602
Tel: (703) 665-0707
Fax: (703) 665-0768

Container Products Corp.
PO Box 3767
Wilmington, NC 28406
Tel: (919) 392-6100
Fax: (919) 392-6778

Manufacturers of industrial cleaning equipment, including automatic jet washers compatible with biodegradable detergents and water solutions. Also cleaning systems with wash, rinse, and dry cycles, custom systems, extended wash cabinets, large capacity systems, and tumbling systems.

Unique blend of orange oils and highly refined synthetic hydrocarbons formulated as a safe replacement for most chlorinated or halogenated, ozone-depleting solvents. Applications include degreasing, removal of oils, wax, tar, adhesives, fresh paint and oil-based inks. Also water-based, alkaline cleaners for the removal of heavy soil contaminants.

Supercritical fluid extraction cleaning process for removing organic solvent, oil and lubricant residues. May also be effective for particulate removal when used in conjunction with agitation and/or ultrasonics.

Custom designed machines for cleaning, surface preparation and other processing of metal and non-metallic parts.

Manufacturer of a non-solvent-based precision batch cleaning system, utilizing solvent materials filtered to .2um ppm. Process removes flux, oils and particulates by agitation, wetting and drying in an inert atmosphere. Also used for hybrids, and PCBs.

Systems incorporating a variety of aqueous cleaning techniques which include filtered negative pressure chambers, high pressure chambers, and mobile cleaning systems.

Creative Enterprizes
105 Anyway, Suite 209
Lake Jackson, TX 77566
Tel: (409) 292-0244
Fax: (409) 292-0440

Ecolink
1481 Rock Mountain Blvd.
Stone Mountain, GA 30083
Tel: (404) 621-8240
(800) 886-8240
Fax: (404) 621-8245

Ecology Systems, Inc.
PO Box 391
Bellingham, MA 02019
Tel: (508) 966-0396

Environmental Recovery Resources, Inc.
PO Box 36
South Salem, NY 10590
Tel: (914) 533-6175
Fax: (914) 533-6275

ETUS, Inc.
1511 Kastner Place
Sanford, FL 32771
Tel: (407) 321-7910
Fax: (407) 321-3098

FMT Inc. (Findlay Machine & Tool)
1950 Industrial Dr.
Findlay, OH 45840
Tel: (419) 422-0768
(800) 878-8011
Fax: (419) 422-0072

Hotsy Equipment Co.
67 Sprague St.
Boston, MA 02136
Tel: (800) 544-7790

Specialize in low cost conversion of existing facilities to safely use alternative cleaning agents. Design new or custom cleaning equipment and processes. Also design environmentally secure drying equipment and processes.

Wide range of aqueous, semi-aqueous and non-aqueous chemistries. Formulations include a variety of hydrocarbon, NMP, DBE and terpene products as well as non-ozone depleting halogenated solvents. Manufacture a complete line of batch cleaning units for use with these solvents.

Floating, dispersed, and dissolved hydrocarbon contaminants removed to surface water discharge limits, using: no coalescing plates, no centrifugal, no carbon absorption, no sorbent waste. Also offer systems and services to extend cleaning bath 'life' for more cost effective aqueous systems and waste water processing, and waste-minimized settling-pond and separator maintenance/remediation.

Formulations made of hydrocarbons and blends of hydrocarbons and emulsifiers. Also offer aqueous-based formulations containing detergents with and without glycol ethers.

Custom engineered parts cleaning equipment, standard parts cleaning equipment, and pollution control equipment.

Hoyt Corp.
Forgs Rd.
Westport, MA 02790-0217
Tel: (508) 636-8811
Fax: (508) 636-2088

Hurricane Systems, Inc.
2080 Brooklyn Rd.
PO Box 867
Jackson, MI 49204
Tel: (517) 787-3481
Fax: (517) 787-2349

Infinetex
PO Box 383
10100 Main St.
Clarence, NY 14031
Tel: (716) 759-6983
Fax: (716) 759-2050

JM Associates, Inc.
225 Railroad Avenue
Bedford Hills, NY 10507
Tel: (914) 241-3795
Fax: (914) 241-3731

Lewis Corp.
102 Willenbrock Rd.
Oxford, CT 06478-1033
Tel: (203) 264-3100
Fax: (203) 264-3102

Membrex, Inc.
155 Route 46 West
Fairfield, NJ 07004
Tel: (201) 575-8388
Fax: (201) 575-7011

Wide range of "off-the-shelf", semi-custom, and custom parts cleaning systems using water-based cleaning compounds. Systems include: belt, rotary and overhead conveyors for continuous and batch processing; carousel, cabinet, and agitation tank washers; multi-stage wash, rinse, oxidation inhibit, and dry; oil removal and oil skimming devices; electric, gas, and steam heat packages.

Ultrafiltration systems for oil and water separation.

New bioremediation technology: safe, non-toxic, non-caustic, neutral pH, non-flammable aqueous cleaning solution with hydrocarbons. Has successfully replaced hazardous solvents in vehicle maintenance, metals cleaning and precision manufacturing operations. Also solvents for auto, marine, contaminated soil and grease cleaning. Application of cleaners by immersion, spray or within closed-loop industrial systems.

Manufacturer of industrial cleaning systems, specializing in aqueous-based chemistries. Both ultrasonic and non-ultrasonic washers available.

Membrane based separation processes to recycle, wash, and rinse waters from aqueous-based and organic cleaning solutions.

Met-Pro Corp.
Systems Division
160 Cassell Rd.
Harleysville, PA 19438
Tel: (215) 723-6751
Fax: (215) 723-6161

Midbrook Industries
1745 West Hamlin Rd.
Rochester Hills, MI 48309
Tel: (313) 852-2490
(800) 966-9274
Fax: (313) 852-5520

NAPCO, Inc.
Division of Thermo Electron
Plymouth Industrial Park
Terryville, CT 06786
Tel: (203) 589-7800
Fax: (203) 589-7304

North American BioIndustries Corp.
400 N. Executive Drive, Ste 467
Brookfield, WI 53005
Tel: (414) 789-2724
(800) 395-8070
Fax: (414) 789-2725

Proceco
7300 Tellier St.
Montreal, Quebec
Canada H1N 3T7
Tel: (514) 254-8494
Fax: (514) 254-8184
(514) 254-6922

Activated carbon fiber adsorption systems for control and recovery of cleaning solvent air emissions. Recovers solvent in higher quality and with less energy use than granular carbon. Systems can be regenerated with steam, air or nitrogen.

Chemical flocculation waste water treatment systems for heavy metal emulsified oil, suspended solid removal to render industrial waste water suitable for sewerage.
Ultrafiltration waste water treatment systems for pretreatment of oily waste water for either reuse or disposal. Metal working fluid filtration systems to extend working life of fluids. Oil separation systems including skimmers and coalescers to separate tramp oils from metal working fluids.

Aqueous cleaning systems using a series of tanks to clean, rinse, and dry parts in either manual or fully automated systems. Parts are cleaned using soak, spray under immersion, mechanical agitation or ultrasonic activation. Aqueous cleaning systems are available separately or in conjunction with a wide range of waste treatment systems including closed loop systems for zero discharge.

Aqueous surfactants and microbes for hard surface degreasing and to initiate bioremediation of oily waste water. Also offer and service bioreactors for treatment of oily waste water.

Aqueous spray washers (turntable, belt conveyor, and immersion types). Also supply contaminated cleaning solutions recycling systems.

Prosys Corp.
187 Billarica Rd.
Chelmsford, MA 01824
Tel: (508) 250-4940
Fax: (508) 250-4977

Quantum Technologies
PO Box 223
Jones Mill Industrial Park
Jones Mill, AR 72105
Tel: (501) 844-4700
Fax: (501) 844-4711

Rapid Engineering, Inc.
P.O. Box 700
1100 Seven Mile Road N.W.
Comstock Park, MI 49321-0700
Tel: (616) 784-0500
Fax: (616) 784-0435

R.G. Hanson Co., Inc.
703 E. Lincoln
Bloomington, IL 61701
Tel: (309) 828-5070
(800) 392-0903
Fax: (309) 829-3294

SAMSCO, Inc.
18 Cote Ave.
Goffstown, NH 03045
Tel: (603) 668-7111
Fax: (603) 647-0537

Separation Technologists, Inc.
100 Griffin Brook Park
Methuen, MA 01844
Tel: (508) 794-1170
Fax: (508) 794-0933

S&K Products International
80 Red Schoolhouse Rd. #102
Chestnut Ridge, NY 10977
Tel: (914) 425-6200
Fax: (914) 425-7602

Parts washers utilizing low to medium pressure spraying of aqueous solutions on metal and plastic substrates. Exhaust incinerators for lowering VOC discharge to the atmosphere.

Aqueous cleaning chemicals and equipment. New equipment using only steam to clean also available.

Smart Sonic Precision Cleaning Systems
2373 Teller Rd., #107
Newbury Park, CA 91320
Tel: (805) 499-7440
Fax: (805) 375-5781

Solvent Kleene, Inc.
131.5 Lynnfield Street
Peabody, MA 01960
Tel: (508) 531-2279
Fax: (508) 532-9304

Sonitech Inc.
239 East Stephenson St.
Freeport, IL 61032
Tel: (815) 235-2400
Fax: (815) 232-2150

Ultronix Inc.
104 Niantic Rd.
Barto, PA 19504
Tel: (800) 553-7881
Fax: (215) 845-3995

Unitech Industrial Inc.
PO Box 330
16 South Ave,
Wappingers Falls, NY 12590
Tel: (914) 297-0745
(800) 277-5522
Fax: (914) 297-2919

Vector Environmental, Inc.
3374 West Hopkins Street
Milwaukee, WI 53216
Tel: (414) 444-4010
Fax: (414) 449-2628

Westek
400 Rolyn Place
Arcadia, CA 91007
Tel: (818) 446-4444
Fax: (818) 446-7341

Automated ultrasonic and spray batch cleaners for precision cleaning of metal, plastic, and ceramic parts. Systems clean oils, particulate and other contaminants. Optional waste evaporator.

Formulations, replacing chlorinated solvents, compatible with existing equipment, suitable with ferrous and non-ferrous metals, for oil removal, degreasing, removing flux, wax. Company offers on-site solvent-recovery closed-loop systems.

Ultrasonic cleaning equipment using aqueous or semi-aqueous chemistries for a wide range of applications. Complete systems include cleaning tanks, rinse, tanks, dryers and closed loop rinse water recirculation systems. System uses alcohol or other solvents with perfluorinated chemistry for rinsing and drying non-water contact applications.

Retrofit existing equipment for HCFCs chlorinated solvents, perfluorinated chemicals, and hydrocarbon-based solvents. New equipment (manual or automated) for efficient use of non-aqueous vapor phase chemicals.

Closed loop industrial cleaning systems. Spray washers, batch cleaning systems, vapor degreasing, and pretreatment systems available in new equipment and retrofits. Waste water treatment and recycling, 100% oil removal from the cleaning process.

Manufacturers of solvent emission control technologies including closed-loop systems for flushing, spraying, degreasing, ultrasonics, drying, coating, and bonding. All equipment compatible with flammable solvents, blends, and azeotropes.

Working Solutions, Inc.
938 Cortlandt Street
Houston, TX 77008
Tel: (800) 829-4419
Fax: (713) 862-5591

Zenon Environmental Inc.
845 Harrington Court
Burlington, Ontario
Canada L7N 3P3
Tel: (416) 639-6320
Fax: (416) 639-1812

Zenon-Kyzen, Inc.
13 Hampshire Drive
Hudson, NH 03051
Tel: (603) 886-8200
Fax: (603) 886-8272

Aqueous, semi-aqueous and solvent cleaning technologies and equipment.

Membrane, filtration, distillation and biodegradation technologies for industrial water generation and reuse system requirements. These systems are designed for use with small batch equipment up to the largest in-line processes.

RETROFIT ALTERNATIVES

Allied-Signal
PO Box 1139R
Morristown, NJ 07960
Tel: (201) 455-4848
Fax: (201) 455-2745

Altos Engineering, Inc.
6009 N. 61 Ave
Glendale, AZ 85301
Tel: (602) 931-8434
Fax: (602) 937-6396

Baron-Blakeslee, Inc.
1500 West 16th St.
Long Beach, CA 90813
Tel: (800) 548-4422
Fax: (310) 491-1091

Batch and inline cleaning equipment with non-chemical, thermal vacuum drying of rinse waters. Detergent formulations available with and without glycol ethers.

Full line of cleaning equipment for use with aqueous, semi-aqueous, HCFC, and chlorinated solvents. Closed loop system incorporating vacuum drying available (near zero emissions).

Blue Wave Ultrasonics
Div. of Alpheus Cleaning Technologies Corp.
960 S. Rolff St.
Davenport, IA 52802
Tel: (319) 322-0144
(800) 373-0144
Fax: (319) 322-7180

Branson Ultrasonics Inc.
41 Eagle Rd.
Danbury, CT 06810
Tel: (203) 796-0400
Fax: (203) 796-0381

Coleman Chemical, Inc.
One Gemstar Lane
Joliet, IL 60435
Tel: (815) 727-3900
Fax: (815) 727-3998

Creative Enterprizes
105 Anyway, Suite 209
Lake Jackson, TX 77566
Tel: (409) 292-0244
Fax: (409) 292-0440

Environmental Recovery Resources, Inc.
PO Box 36
South Salem, NY 10590
Tel: (914) 533-6175
Fax: (914) 533-6275

Environmental Solvents Corp.
1840 Southside Blvd.
Jacksonville, FL 32216
Tel: (904) 724-1990
Fax: (904) 724-2508

Ultrasonic cleaning equipment built for various applications specific to the customer's needs. Effective in cleaning different products and materials throughout the scope of fabricated metals, plastics, and ceramics. Also offer aqueous-based detergents that are environmentally safe.

Ultrasonic cleaning equipment and integrated cleaning systems for metal, electronic, and precision cleaning requirements. Manual and fully automated material handling/transport systems. Equipment for aqueous, semi-aqueous and solvent chemistry.

Specialty formulations of non-ozone depleting HFCs available in 1995.

Specialize in low cost conversion of existing facilities to safely use alternative cleaning agents. Design new or custom cleaning equipment and processes. Also design environmentally secure drying equipment and processes.

Floating, dispersed, and dissolved hydrocarbon contaminants removed to surface water discharge limits, using: no coalescing plates, no centrifugal, no carbon absorption, no sorbent waste. Also offer systems and services to extend cleaning bath 'life' for more cost effective aqueous systems and waste water processing, and waste-minimized settling-pond and separator maintenance/remediation.

Inexpensive retrofit kit for existing small two sump degreasers. Designed for use with terpene-based solvents in water-free cleaning. Small production capacity.

Envirosolutions Inc.
335 Post Road West
Westport, CT 06880
Tel: (203) 454-5902
Fax: (203) 222-0190

ETUS, Inc.
1511 Kastner Place
Sanford, FL 32771
Tel: (407) 321-7910
Fax: (407) 321-3098

Finishing Equipment Inc.
3640 Kennebec Dr.
St. Paul, MN 55122
Tel: (612) 452-1860
Fax: (612) 452-9851

FMT Inc. (Findlay Machine & Tool)
1950 Industrial Dr.
Findlay, OH 45840
Tel: (419) 422-0768
(800) 878-8011
Fax: (419) 422-0072

Occidental Chemical Corp.
Technical Center
PO Box 344
Niagara Falls, NY 14302
Tel: (800) 733-1165
Fax: (716) 278-7297

Petroferm Inc.
5415 First Coast Highway
Fernandina Beach, FL 32034
Tel: (904) 261-8286
Fax: (904) 261-6994

Biodegradable, non-caustic, neutral pH cleaner which is used in a closed loop parts washing system. Several different formulations developed to suit a variety of cleaning needs. Customized parts washing equipment is matched to the cleaning chemicals to ensure optimum performance.

Formulations made of hydrocarbons and blends of hydrocarbons and emulsifiers. Also offer aqueous-based formulations containing detergents with and without glycol ethers.

Aqueous, semi-aqueous and solvent cleaning systems available. From manual systems to automated high-production cleaning lines, with ultrasonics available as needed. Specialize in automated enclosed vapor degreasers for efficient use of the non-ozone depleting chlorinated solvents.

Custom engineered parts cleaning equipment, standard parts cleaning equipment, and pollution control equipment.

Specially stabilized methylene chloride for a wide variety of applications. Formulations of halogenated toluenes and benzotrifluorides for cold cleaning of metals and electronics. Ethylene based glycol ethers for use in many cleaning formulations.

Broad line of formulations based on terpenes, ester, and aliphatic hydrocarbons and blends of these organic solvents with surfactants. Products are used for cold (hand) cleaning and in combination with various cleaning equipment. Products can be removed by evaporation, water, alcohols or nonflammable fluorinated solvents. Both products and rinse media can be recycled.

Rapid Engineering, Inc.
P.O. Box 700
1100 Seven Mile Road N.W.
Comstock Park, MI 49321-0700
Tel: (616) 784-0500
Fax: (616) 784-0435

SAMSCO, Inc.
18 Cote Avenue
Goffstown, NH 03045
Tel: (603) 668-7111
Fax: (603) 647-0537

S.A.S., Inc.
2435 North Indian Hill Blvd
Claremont, CA 91711-1730
Tel: (909) 624-0396
Fax: (909) 624-6336

SONICOR Instrument Corp.
100 Wartburg Ave.
Copiague, NY 11726
Tel: (516) 842-3344
Fax: (516) 842-3389

Ultronix Inc.
104 Niantic Rd.
Barto, PA 19504
Tel: (800) 553-7881
Fax: (215) 845-3995

Unitech Industrial Inc.
PO Box 330
16 South Ave,
Wappingers Falls, NY 12590
Tel: (914) 297-0745
(800) 277-5522
Fax: (914) 297-2919

U.S. Polychemical Corp.
Route 45 Chestnut Ridge Road
Chestnut Ridge, NY 10977
Tel: (914) 356-5530
(800) 431-2072
Fax: (914) 356-6656

Parts washers utilizing low to medium pressure spraying of aqueous solutions on metal and plastic substrates. Exhaust incinerators for lowering VOC discharge to the atmosphere.

The SAMSCO water evaporator evaporates efficiently and economically. Typical applications include machining/grinding coolants, alkaline cleaners, floor scrubber waters, vibratory solutions, stamping/drawing compounds, wire drawing compounds and die casting solutions.

Aqueous cleaning machines, part washers using spray, immersion, agitation, and ultrasonics. Range of detergents, cleaners, oil skimmers, exhaust systems, filtering systems, auto rinse systems, and hot air dryers.

Ultrasonic cleaning equipment, automated aqueous cleaning systems. Environmentally safe alternatives to cleaning with hazardous solvents.

Retrofit existing equipment for HCFCs chlorinated solvents, perfluorinated chemicals, and hydrocarbon-based solvents. New equipment (manual or automated) for efficient use of non-aqueous vapor phase chemicals.

Closed loop industrial cleaning systems. Spray washers, batch cleaning systems, vapor degreasing, and pretreatment systems available in new equipment and retrofits. Waste water treatment and recycling, 100% oil removal from the cleaning process.

Manufacturers of oil and grease buffing compounds, flux removing chemistries with non-chlorinated solvents, semi-aqueous, and aqueous technologies. Also automated cleaning systems with recirculating agitation or ultrasonics for turn-key applications.

Working Solutions, Inc.
938 Cortlandt Street
Houston, TX 77008
Tel: (800) 829-4419
Fax: (713) 862-5591

NO CLEAN ALTERNATIVES

Blackstone Ultrasonics, Inc.
9 North Main St.
Jamestown, NY 14701
Tel: (716) 665-2340
(800) 766-6606
Fax: (716) 665-2480

Circle-Proscio, Inc.
2017 Yost Ave.
Bloomington, IN 47403
Tel: (812) 339-3653
Fax: (812) 331-2566

Kester Solder Division Litton Industries
515 E. Touhy Avenue
Des Plaines, IL 60018-2675
Tel: (708) 297-1600
Fax: (708) 390-9338

Aqueous, semi-aqueous and solvent cleaning technologies and equipment.

Complete range of ultrasonic cleaning products from stand-alone and bench-top heated tanks to wash/multiple rinse/dry console systems with optional material handling and automation. Also, fluxless ultrasonic solder pots for tinning leads and electronics.

Aqueous, alkaline, etchant cleaners for ferrous and non-ferrous applications. Aqueous, acidic, neutral, and alkaline oil rejecting cleaners with or without glycol ethers for ferrous and non-ferrous applications. Water miscible, semi-aqueous cleaners (electronics cleaning). Water emulsifiable cleaners containing aliphatic and terpene solvents. Evaporative oils for no clean applications.

Alcohol-based cleaners, solvent blends, and aqueous saponifiers. Also manufacture no-clean, water-clean, and VOC-free; fluxes, solders, and solder pastes.

MAINTENANCE CLEANING

ADF Systems, Ltd.
1302 19th Street. N.
Humboldt, IA 50548
Tel: (515) 332-5400
Fax: (800) 798-5100

Offers detergents both liquid and powder designed for use in all type of aqueous washing equipment. Offers non-foaming formulations with and without glycol ethers and with and without rust inhibitors for all applications. Has parts washing equipment designed for the type of uses experienced in maintenance operations.

A.W. Chesterton
225 Fallon Road
Middlesex Industrial Park
Stoneham, MA 02180-2999
Tel: (617) 438-7000
Fax: (617) 438-8971

A complete line of aqueous cleaners containing detergents, with and without glycol ethers. Hydrocarbon solvents and solvent blends. Non-ozone depleting chlorinated solvents. Provide free assistance to customers wishing to replace ozone-depleting chemicals. Synthetic machining fluids, lubricants and maintenance specialties.

Better Engineering Mfg., Inc.
8361 Town Center Court
Baltimore, MD 21236-4964
Tel: (410) 931-0000
(800) 229-3380
Fax: (410) 931-0053

Manufacturers of industrial cleaning equipment, including automatic jet washers compatible with biodegradable detergents and water solutions. Also cleaning systems with wash, rinse, and dry cycles, custom systems, extended wash cabinets, large capacity systems, and tumbling systems.

BioChem Systems
14452 W. 44th Avenue
Golden, Colorado 80403
Tel: (303) 277-9700
(800) 777-7870
Fax: (303) 277-9596

Complete line of safe environmentally friendly products based on terpene chemistry for use in many cleaning and degreasing operations. Both water dilutable and non-dilutable products are offered which will remove most organic contaminants from a wide variety of substrates and leave a clean, virtually residue free surface with no adverse effects on the surface being cleaned.

Break-Free, Inc.
1035 S. Linwood Avenue
Santa Ana, CA 92705-4396
Tel: (714) 953-1900
Fax: (714) 953-0402

Unique blend of orange oils and highly refined synthetic hydrocarbons formulated as a safe replacement for most chlorinated or halogenated, ozone-depleting solvents. Applications include degreasing, removal of oils, wax, tar, adhesives, fresh paint and oil-based inks. Also water-based, alkaline cleaners for the removal of heavy soil contaminants.

BY*PAS International Corporation
P.O. Box 14
Hudsonville, MI 49426
Tel: (616) 875-7234
Fax: (616) 875-7743

Calgon Corp.
Chemical Technologies Group
PO Box 1346
Pittsburgh, PA 15230
Tel: (800) 955-0090
Fax: (412) 777-8927

Formulations include non-chelating, non-phosphate, readily biodegradable aqueous-based cleaners, non-chlorinated solvent cleaners and paint removing compounds, non-glycol based solvent enhanced general cleaners, neutral pH process cleaners, and industrial waste treatment polymers.

Carroll Company
2900 W. Kingsley Road
Garland, TX 75041
Tel: (800) 527-5722
Fax: (214) 840-0678

Aqueous cleaning formulations containing detergents with and without glycol ethers. Formulations made from hydrocarbons and terpenes with and without emulsifiers. Specialty solvent blends for printing ink cleanup, electric motor degreasing, cleaning printed circuit boards, and assorted textile mill applications.

Chemtronics, Inc.
8125 Cobb Center Dr.
Kennesaw, GA 30144
Tel: (404) 424-4888
Fax: (404) 424-4267

Ultra-pure cleaners for electronics and metals.

Cobehn, Inc.
640 Airport Road
Winchester, VA 22602
Tel: (703) 665-0707
Fax: (703) 665-0768

Manufacturer of a non-solvent-based precision batch cleaning system, utilizing solvent materials filtered to .2um ppm. Process removes flux, oils and particulates by agitation, wetting and drying in an inert atmosphere. Also used for hybrids, and PCBs.

Coleman Chemical, Inc.
One Gemstar Lane
Joliet, IL 60435
Tel: (815) 727-3900
Fax: (815) 727-3998

Creative Enterprizes
105 Anyway, Suite 209
Lake Jackson, TX 77566
Tel: (409) 292-0244
Fax: (409) 292-0440

EXXON Chemical Co.
PO Box 3272
Houston, TX 77253-3272
Tel: (800) 526-0749
Fax: (713) 870-6661

International Products Corp.
P.O. Box 70
Burlington, NJ 08016-0070
Tel: (609) 386-8770
Fax: (609) 386-8438

JM Associates, Inc.
225 Railroad Avenue
Bedford Hills, NY 10507
Tel: (914) 241-3795
Fax: (914) 241-3731

JnJ Industries
195 E. Main St., Suite 303
Milford, MA 01757
Tel: (800) 554-9994
Fax: (508) 478-2221

Specialty formulations of non-ozone depleting HFCs available in 1995.

Cleaners comprised of narrow boiling range, high flash point aliphatic hydrocarbons. Low olefin and aromatic content. Low residue, low corrosivity to metals, low odor, low toxicity. Requires no water handling. Recycle by distillation. Effective against a wide range of waxes, oils, and greases.

Biodegradable formulations with low toxicity, no phosphates or CFCs used in precision and critical cleaning operations.

New bioremediation technology: safe, non-toxic, non-caustic, neutral pH, non-flammable aqueous cleaning solution with hydrocarbons. Has successfully replaced hazardous solvents in vehicle maintenance, metals cleaning and precision manufacturing operations. Also solvents for auto, marine, contaminated soil and grease cleaning. Application of cleaners by immersion, spray or within closed-loop industrial systems.

Manufacturer of eight non-CFC formulations including a supersaturated wipe solvent.

Kleer-Flo Company
15151 Technology Dr.
Eden Prairie, MN 55344
Tel: (612) 934-2555
(800) 328-7942
Fax: (612) 934-3909

Kyzen Corporation
430 Harding Industrial Drive
Nashville, TN 37211
Tel: (615) 831-0888
Fax: (615) 831-0889

A broad line of non-hazardous, zero ODP, biodegradable, and low VOC cleaning products. Kyzen products are used for cold cleaning, immersion solvent cleaning, and aqueous spray cleaning. These materials are compatible with a wide range of cleaning machines: spray in air, spray in immersion, soak, and ultrasonic. Kyzen products can be used in closed looped systems for low/zero discharge by a variety of commonly available water reuse systems.

LPS Laboratories, Inc.
4647 Hugh Howell Rd.
Tucker, GA 30084
Tel: (800) 241-8334
Fax: (404) 493-9206

MacDermid Incorporated
245 Freight Street
Waterbury, CT 06702
Tel: (203) 575-5700
Fax: (203) 575-5630

Environmentally safe products, aqueous and hydrocarbon-based blends for degreasing.

Micro Care Corp.
34 Ronzo Rd.
Bristol, CT 06010
Tel: (203) 585-7912
Fax: (203) 585-7378

Solvent cleaners based on but not limited to terpene hydrocarbon, alcohol, or HCFC technologies. Formulations are engineered for use in non-automated hand cleaning applications where rinsing is not available. Cleaners are effective in touch-up cleaning and precision cleaning of all types of flux residues, oils, grease and grime.

Miller-Stephenson Chemical Co., Inc.
George Washington Highway
Danbury, CT 06810
Tel: (203) 743-4447
Fax: (203) 791-8702

Navy Brand Mfg Co.
Division of Chemstar, Inc.
5111 Southwest Avenue
St. Louis, MO 63110-3496
Tel: (800) 325-3312
(314) 865-5500
Fax: (314) 865-5509

Ney Ultrasonics
1280 Blue Hills Avenue
Bloomfield, CT 06002
Tel: (203) 286-6149
Fax: (203) 286-6150

North American BioIndustries Corp.
400 N. Executive Drive, Ste 467
Brookfield, WI 53005
Tel: (414) 789-2724
(800) 395-8070
Fax: (414) 789-2725

Oakite Products, Inc.
50 Valley Road
Berkeley Heights, NJ 07922
Tel: (908) 508-2107
Fax: (908) 464-9250

Industrial degreasers for metal cleaning and parts cleaning. Formulations are based on non-ozone depleting solvents. Also solvent-based, aqueous-based and also semi-aqueous-based products for a variety of cleaning applications on a host of substrates, both metallic and non-metallic.

Equipment for batch/manual and batch/automated cleaning using aqueous, water-miscible, semi-aqueous, and solvent chemistries. Complete application development laboratory to assist users.

Aqueous surfactants and microbes for hard surface degreasing and to initiate bioremediation of oily waste water. Also offer and service bioreactors for treatment of oily waste water.

High-tech, state-of-the-art, recyclable cleaning products for use in immersion, ultrasonic, hand wipe, and other cleaning applications. Many aqueous and semi-aqueous formulations adhere to the Clean Air Act, OSHA regulations, and do not contain SARA 313 ingredients. Comprehensive lines of products that exhibit biodegradability, oil splitting or emulsifying features. Terpene-based cleaners have no flash point, and alkaline, aqueous formulations include non-phosphated, non-chelated, mildly alkaline cleaners.

Petroferm Inc.
5415 First Coast Highway
Fernandina Beach, FL 32034
Tel: (904) 261-8286
Fax: (904) 261-6994

Broad line of formulations based on terpenes, ester, and aliphatic hydrocarbons and blends of these organic solvents with surfactants. Products are used for cold (hand) cleaning and in combination with various cleaning equipment. Products can be removed by evaporation, water, alcohols or nonflammable fluorinated solvents. Both products and rinse media can be recycled.

P-T Technologies
108 4th Avenue South
Safety Harbor, FL 34695
Tel: (800) 441-7874
(813) 726-4644
Fax: (813) 725-9544

Non-halogenated hydrocarbon-based specialty cleaning and degreasing formulations for precision cleaning. Also offer vapor degreaser alternatives, ionic contaminant removers, acetone, MEK alternatives for specific industrial applications.

Ramco Equipment Corporation
32 Montgomery Street
Hillside, NJ 07205
Tel: (908) 687-6700
Fax: (908) 687-0653

Standard line of single and multi-station aqueous degreasing systems with a wide selection of options including platform oscillation, directional turbulation, oil removal, ultrasonics, filtration, parts rotators and dryers. Nationwide network of application engineers to assist from process development through installation.

Rite Off, Inc.
Seaford Industrial Park
P.O. Box 1070
Seaford, DE 19973
Tel: (800) 645-5853
(302) 628-2100
Fax: (800) 571-2211

Wide variety of cleaning and maintenance formulations using alcohols, terpenes, HFCs, hydrocarbons and chlorinated solvents. Specialists in aerosol technology, liquid formulations also available.

Rochester Midland Corp.
333 Hollenbeck St.
Rochester, NY 14621
Tel: (716) 336-2200
Fax: (716) 467-4406

Formulations comprised of hydrocarbon and/or terpene solvents. Some also contain surfactants. Many contain alkaline builders and chelants as well as glycol ethers. Some aqueous-based or water-compatible formulations exhibit good biodegradability. Many products allow for good oil/grease separation upon standing.

S.A.S., Inc.
2435 North Indian Hill Blvd
Claremont, CA 91711-1730
Tel: (909) 624-0396
Fax: (909) 624-6336

Star Cleaning Miracle, Inc.
P.O. Box 14
Hudsonville, MI 49426
Tel: (616) 875-7234
Fax: (616) 875-7743

SWR Corporation
127 East Washtenaw
Lansing, MI 48933
Tel: (517) 487-6390
Fax: (517) 487-8205

Terpene Technologies Inc.
3400 Ridge Rd. W, Suite 293
Rochester, NY 14626
Tel: (716) 546-8455
(716) 777-0790
Fax: (716) 227-3834

Texo Corporation
2801 Highland Ave.
Cincinnati, OH 45212
Tel: (513) 731-3400
Fax: (513) 731-8113

Aqueous cleaning machines, part washers using spray, immersion, agitation, and ultrasonics. Range of detergents, cleaners, oil skimmers, exhaust systems, filtering systems, auto rinse systems, and hot air dryers.

Cleaners include biodegradable, non-toxic, aqueous cleaner/degreaser surfactants that have a powerful affinity for removing grease, oil and grime emulsions. The SWR™ cleaners also remove oils and grease coatings from machine and electronic parts with no remaining residue. As non-toxic compounds, SWR™ cleaners reduce associated end-use disposal costs.

Terpene alcohol and hydrocarbon blends used as non-water soluble solvents, semi-aqueous cleaners and degreasers based on terpene alcohols and hydrocarbons. Also offer aqueous-based terpene formulations containing detergents and emulsifiers.

Aqueous, semi-aqueous, and various solvent cleaners for replacement of vapor degreasing and handwiping with solvents. Applications of cleaners can be spray immersion, ultrasonic or handwiping. Cleaners can be multimetal safe and contain corrosion inhibitors if necessary.

Union Camp Corp.
Bush Boake Allen Division
PO Box 37617
Jacksonville, FL 32236
Tel: (904) 783-2180
(800) 874-9220
Fax: (904) 786-6495

U.S. Polychemical Corp.
Route 45 Chestnut Ridge Road
Chestnut Ridge, NY 10977
Tel: (914) 356-5530
(800) 431-2072
Fax: (914) 356-6656

Working Solutions, Inc.
938 Cortlandt Street
Houston, TX 77008
Tel: (800) 829-4419
Fax: (713) 862-5591

W.R. Grace & Co.
Metalworking Fluids Group
55 Hayden Ave.
Lexington, MA 02173
Tel: (617) 861-6600
Fax: (617) 861-9066

Zip-Chem Products
1860 Dobbin Dr.
San Jose, CA 95133
Tel: (408) 729-0291
(800) 648-2661
Fax: (408) 272-8062

Range of wood terpene-based alternative solvents for semi-aqueous and solvent only cleaning processes and maintenance cleaning applications. High solvency and high soil loading properties for removal of solder fluxes, heavy oils and greases, polishing compounds, carbonaceous deposits etc. to the highest cleanliness standards.

Manufacturers of oil and grease buffing compounds, flux removing chemistries with non-chlorinated solvents, semi-aqueous, and aqueous technologies. Also automated cleaning systems with recirculating agitation or ultrasonics for turn-key applications

Aqueous, semi-aqueous and solvent cleaning technologies and equipment.

Wide range of aqueous cleaning formulations for metal. precision, and maintenance cleaning. Includes formulations that are phosphate-free. Suitable for agitation, soak, spray, ultrasonic and hand wipe applications.

Aqueous, semi-aqueous aliphatic hydrocarbon, terpene and alcohol-based cleaners. Application oriented packaging like wipes, aerosols, specialty containers, and other delivery systems available.